

The CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2915
VOL. CXXXIII

DECEMBER 21, 1935

Annual Subscription (with
Diary) 20/- Single Copies 9d.

*The Latest
Discovery for*

the Rapid Healing
of Burns, Scalds,
Cuts, Abrasions, etc.

"NERM," when spread over the affected parts, dries in a few minutes, leaving an antiseptic protective covering under which healing is rapid.

"NERM" is packed in attractive sales outers, as illustrated, containing one dozen tubes in cartons. Retail price 7½d. per tube. Wholesale price 5/- per dozen. Bonus of one to the dozen on direct orders.

*Literature and Showcards
will be sent on request.*

Allen & Hanburys Ltd.
London, E.2

Telephone:
3201 Bishopsgate (12 lines)

Telegrams:
"Greenburys Beth London"



EUTHYMOL A SOUND LINE
TOOTH PASTE

SEND FOR TERMS

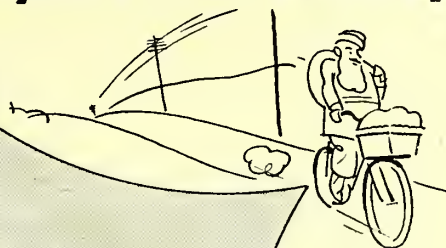
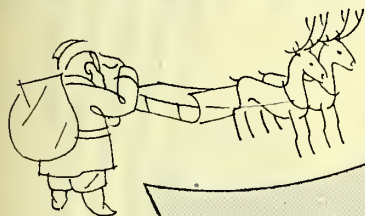


The advertisement features a collection of Euthymol toothpaste products. In the foreground, there are several boxes and tubes. One box is labeled 'EUTHYMOL TOOTH PASTE' and 'PARKE, DAVIS & CO. LONDON'. Another box is labeled 'SCIENTIFIC TOILET' and 'A Sound Line Preparation'. A tube of toothpaste is also visible, with the brand name 'EUTHYMOL' and 'PARKE, DAVIS & CO. LONDON' clearly printed on it. The background is dark and textured, with a grid-like pattern of light and shadow.

PARKE, DAVIS & CO., 50, BEAK STREET., LONDON. W.1

XMAS TRADE

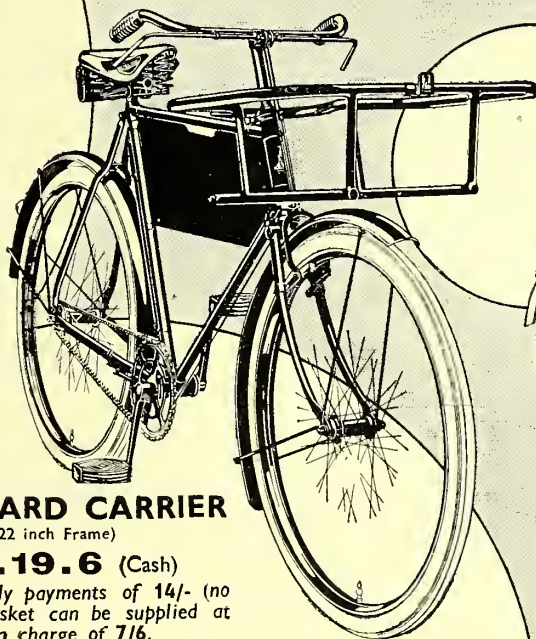
just a word—because we know you're in a hurry



Have you
remembered to
order your

RALEIGH CARRIERS

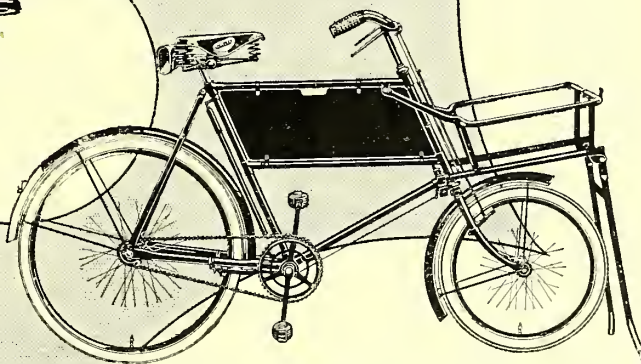
to help you with
the increased trade!



STANDARD CARRIER
(22 inch Frame)

£6.19.6 (Cash)

or 12 monthly payments of 14/- (no deposit). Basket can be supplied at extra charge of 7/6.



LOW GRAVITY CARRIER

(22 inch Frame)

at same price and terms. Specially designed for carrying heavy or bulky loads without skidding. An instantly operated stand built into the carrier is an important feature.

EVERY RALEIGH CARRIER CYCLE has the finest equipment, including BROOKS' SADDLE, DUNLOP TYRES, etc.

THE RALEIGH CYCLE CO. LTD., NOTTINGHAM

The
George Brown
Photo Co. Ltd.
wish all their customers
Health and Happiness
this Christmas



27A BRAZENNOSE STREET MANCHESTER 2

See for Yourself



INECTO

**GREY HAIR
RECOLOURATION
DEMONSTRATED
on Living Models**

At the

Inecto Demonstration Room, 27 Dover Street, London, W.1

PRICES OF INECTO OUTFITS

2-Bottle Outfit, Wholesale 30/- per dozen, Retails at 3/6 per Outfit

4. " " " 48/- " " " " 6/6 " "

8. " " " 84/- " " " " 12/6 " "

INECTO ENQUIRY BUREAU: 27 DOVER STREET, LONDON, W.1.
Telephone: Regent 7541 (12 lines)

8^{D.}
PROFIT
 ON
 AN
OUTLAY
 OF
10^{D.}
 OR
80%



SOLD
BY
CHEMISTS
ONLY

MADE
IN
OUR
LONDON
LABORATORIES

Retail Price 1/6 per Jar. Chemists' Price 10/- per doz.

LABORATORY DEPARTMENT
ARMOUR AND COMPANY
 LIMITED

**ARMOUR HOUSE, St. MARTIN'S-LE-GRAND,
 LONDON, E.C.1.**

Telegrams: "ARMOSATA-CENT," LONDON
 Telephone: NATIONAL 2424



READING & SPORTS SHADES

→ REDUCED PRICES ←

AS FROM JANUARY 1ST, 1936



NON-FLAM SHADES
ALL NUMBERS



FABRIC SHADES
No. D457 No. D456

WILL BE REDUCED AS FROM THE ABOVE DATE

THE NEW PRICE LIST CONTAINS PARTICULARS OF OUR SEASON'S NOVELTY

No. D460

"CENTRE COURT"

PIQUE TENNIS SHADES

IN WHITE AND DELICATE PASTEL SHADES WITH WHICH YOU SHOULD BE ACQUAINTED AS THEIR ATTRACTIVENESS IS SURE TO GIVE THEM A WIDE SALE

DURING THE MONTH OF JANUARY, 1936, WE SHALL BE PLEASED TO RECEIVE

FOR RE-WRAPPING WITH NEW PRICES

ANY EXISTING STOCKS, WHICH WILL BE RETURNED CARRIAGE PAID, TOGETHER

WITH CREDIT NOTE FOR THE DIFFERENCE IN PRICE

WE ARE CONFIDENT THAT THE IMPROVED PRICES WILL HELP TO POPULARISE STILL FURTHER THIS WELL KNOWN RANGE



SOLPORT
BROTHERS LIMITED

IF OUR NEW PRICE LIST OF "PORTIA" SHADES HAS NOT ALREADY REACHED YOU PLEASE SEND POST-CARD FOR COPY

184-192 GOSWELL ROAD, LONDON, E.C.1

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JOHN THOMPSON (WHOLESALE DRUGGISTS 1921) LTD

27/35 DUKE STREET, LIVERPOOL

Telegraphic Address: Drugs, Liverpool

Telephone No. 1434 Royal

Enquiries Invited for

DRUGS, GALENICALS, PILLS, TABLETS,
CHEMICALS, PATENT MEDICINES, CHEMISTS'
SUNDRIES, PHOTOGRAPHIC SUPPLIES,
TOBACCO AND CIGARETTE AND PACKED
PHARMACEUTICAL SPECIALITIES

Our Laboratories are under the constant supervision of a highly qualified Staff

ALL ORDERS DISPATCHED SAME DAY AS RECEIVED

PUBLIC DEMAND

is your proof of PROFITS

● Purity and efficacy—these are the foundations upon which the Venos Drug Company has so successfully built its reputation. Germolene Brand Ointment, Dr. Cassell's Brand Tablets and Venos Brand Lightning Cough Cure are bought regularly by hundreds of thousands of satisfied customers. They can be the source of big and **steady** profits for you. Write for terms, etc., to the

VENO DRUG CO. LTD.

CHESTER ROAD, MANCHESTER, 16

SPECIALISTS IN THE MANUFACTURE OF PILLS & TABLETS

ARTHUR H. COX & LTD.
Co. LTD.
BRIGHTON, ENGLAND.

Established 1839

The Laboratories

*An organisation of wide experience and every facility for the
MANUFACTURING AND SELLING OF PHARMACEUTICAL PREPARATIONS.*

1 & 3 SECTIONS OF TWO COATING DEPARTMENTS	8 BATTERY OF PILL MACHINES
2 ROTARY TABLET MACHINES	9 SPECIAL COATING
4 ONE OF THE LATEST PILL MAKING MACHINES	10 BOX MAKING AND SHOW MATERIAL DEPARTMENT
5 BATTERY OF TABLET MACHINES	11 LABELLING MACHINES
6 ROTARY MIXER	12 SHOWCARD EMBOSSING MACHINE
7 SECTION OF "WETS" DEPARTMENT	13, 14 & 15 PACKING DEPARTMENTS
16 & 17 PRINTING AND STUDIO DEPARTMENTS	



***A proved
quick seller
for your winter displays***

The common cold is still the chemist's most constant "money-spinner." Penetrol Inhalant and Tablets are in demand throughout the whole of the year, but more especially during the winter months, October to March.

Ever increasing personal recommendation, backed by judicious advertising, has made Penetrol sales grow bigger and bigger each year, whilst the introduction of Penetrol Tablets (Ephedrine Co.) last year was an immediate success.

Window shows and counter displays of Penetrol during the winter season quickly show a profitable return. Striking show-matter is sent with every order and strong, persuasive Press Advertising will be appearing throughout the winter. Please co-operate by giving Penetrol a prominent display.

The Public prefers

PENETROL
BRAND
INHALANT & TABLETS

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

SHAVE WITH A "LAUREL"

"LAUREL PENNY BLADES—ALL TYPES"

MADE IN SHEFFIELD, ENGLAND

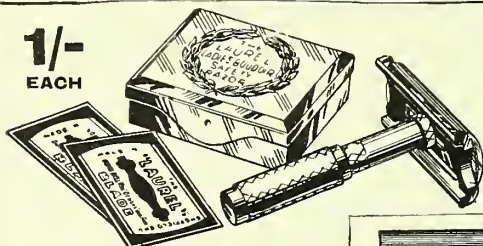
"LAUREL"

LADIES' BOUDOIR
SAFETY RAZORS
(NICKEL PLATED)

6d.
EACH



1/-
EACH



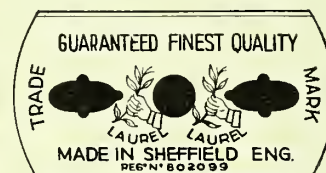
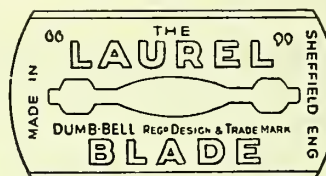
THE "LAUREL" LADIES'
GOLD PLATED BOUDOIR
SAFETY RAZOR

COMPLETE WITH TWO BLADES AS
ILLUSTRATED



**PENNY
BLADES**

FOR YOUR RAZOR
PACKET OF SIX
BLADES FOR
6d.



FITS ALL 3-PEG HOLDERS



GEO. H. LAWRENCE LTD. LAUREL WORKS, SHEFFIELD, 25571

SAFETY RAZOR BLADES TO PRIVATE BRANDS

We are specialists in the production of Safety Razor Blades to Private Brands—Home or Export—Prices competitive—Special wrappers, cartons and labels designed to customers' ideas—In fact your Private Brand complete and ready for sale—Large output available from most modern plant.

CONSULT:

Dominion Steel Corp. Ltd.

"Fleet" Works, Queen's Rd., Sheffield, Eng.

CHEMIST SIGNS

**BUY DIRECT FROM
THE MAKERS**

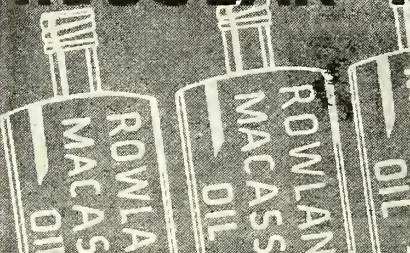
ILLUMINATED FROM 65/-
NON-ILLUMINATED FROM 47/6

**SEND FOR ILLUSTRATED CATALOGUE
SCINTILLATING SIGN SERVICE**

68^A COLEBROOKE ROW
ISLINGTON N.1

TELEPHONE CLERKENWELL 1310

REGULAR REPEAT ORDERS...



ROWLAND'S MACASSAR OIL has maintained its popularity for over 140 years as the premier Hair tonic and dressing. You will do well to stock this famous preparation, for, being well advertised, you will be certain of regular repeat orders.

It does not make the Hair sticky.

A. ROWLAND & SONS, LTD.

22 Laystall Street, Rosebery Avenue, London, E.C.1

ROWLAND'S MACASSAR OIL



REID'S
Bamyl
REGD.

PINE TAR
SHAVING
SOAP
AND
TOILET
PRODUCTS

Plain and Mentholated



*They are different
— try them*

Profit Margin

33¹/₃%

SELLING PRICE

**B
A
M
Y
L**

- | | |
|------------------------------------|-----|
| Shaving Stick (Bakelite container) | 1/- |
| Shaving Stick (Cardboard refill) | 9d. |
| Shaving Stick "JUNIOR" | 6d. |
| Shaving Cream tube | 1/- |
| Toilet Skin Soap tablet | 6d. |
| Liquid Shampoo (Non-Spirit) bottle | 1/- |

*Display Cases, Showcards, Pamphlets,
Attractive Samples for distribution*

SOLE MAKERS

ESTAB. 1868

Thomas Reid & Sons Ltd., Glasgow

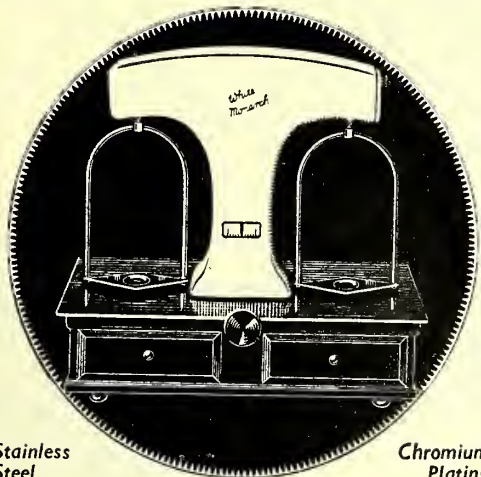
TOOGOOD'S SOAPLESS SHAMPOO Powders



In Envelopes

Boxes of 3 dozen, 24/- per gross

WHITE MONARCH THE MODERN ENCLOSED DISPENSING BALANCE



Stainless
Steel

Chromium
Plating

Entirely protected from dust and fumes by the white porcelain enamelled housing. Strongly made to withstand hard usage and yet retain its sensitivity

ASK YOUR SUNDRIES HOUSE TO
SHOW YOU ONE

WILLIAM A. WEBB, Ltd.
4/5 Skinner Street, London, E.C.1



In Compressed Tablets

Show Boxes of 1 dozen

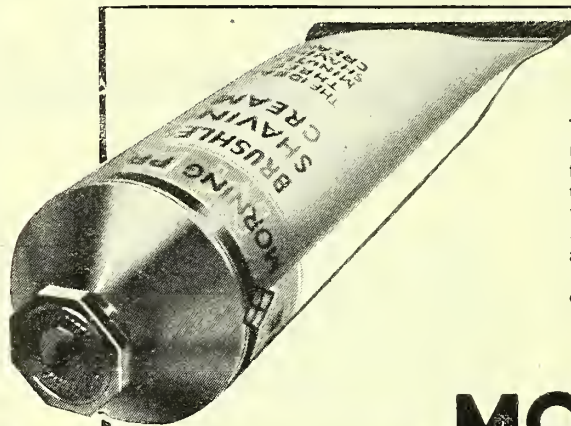
24/- per dozen Boxes

Manufactured by

WILLIAM TOOGOOD LTD.
77 SOUTHWARK ST., LONDON, S.E.1

NEWS *about the new brushless*

SHAVING CREAM



*Extensive Advertising Campaign and
£350 Competition ensures success.*

The national daily newspapers, the weekly journals and monthly magazines are now showing a great series of advertisements for 'Morning Pride' Brushless Shaving Cream. The news of this immense contribution to shaving comfort and hygiene will penetrate throughout the land. Backed by showcards and display, a live new market will be born as if overnight; and to make certainty certain there is an introductory public competition for £350 worth of prizes. Get in stocks of 'Morning Pride' and prepare for a great sales drive.

MORNING PRIDE

THE RAZOR READY BRUSHLESS SHAVING CREAM

PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

For particulars of attractive Initial Order terms write

SOLE DISTRIBUTORS · FASSETT & JOHNSON LTD

86 CLERKENWELL ROAD LONDON, E.C.1

WINDOW DISPLAY COMPETITION

1st PRIZE £30, 2nd PRIZE £20, 3rd PRIZE £10
and 50 £5 prizes.

The above prizes will be awarded to the retailers who submit photographs of a window displaying 'Morning Pride' Brushless Shaving Cream. Showcards, cartons and display material and particulars obtainable on enquiry from the Distributors.

LA PARFUMERIE MODERNE

(Established 1908)

*An Illustrated Monthly Review of the
Perfumery and Allied Industries*

The regular publication (in English and Spanish as well as in French) of technical and practical articles on Essential Oils and Synthetic Perfumery Products is a feature of this popular Trade Journal.

Specimen copy and all particulars from

15 rue Constant, Lyon 7 rue Chevreul, Paris (Xle)



THESE STANDS CREATE BUSINESS

The Laleek Stand as illustrated is unique both in its restrained dignity of design . . . and in its universal suitability for displaying a selection of my Preparations. You will appreciate that you are not limited to the display of the preparations shown, they may be changed at will . . . thus creating a regular interest and increasing demand for Laleek preparations.

**THE
LALEEK
DISPLAY
STAND**



The Laleek range of medically approved beauty aids, patronised by Royalty, are priced to suit all purses and cover every beauty need.
Write to me for details to-day.

ADELAIDE GREY 27 OLD BOND ST.
LONDON. W.1.



To our many friends who have helped to make this first season so successful we offer our sincere thanks and good wishes for a very happy Christmas. We hope that business will far surpass any previous season, and that you will close your shop on Christmas Eve with a record turnover.

For 1936 we can only repeat our good wishes for bigger business—and profits. We have planned new and striking departures in perfumery and toiletries—all showing a worthwhile profit.

May we just apologise to our friends who unfortunately were disappointed by slow delivery—especially of those appealing display pieces. Candidly, we did not expect such a reception for 'Ravon,' but next year's Christmas range is already well in hand and we can promise that no one will be disappointed.

PIESSE and LUBIN

incorporating Bailey and Company

KERSAL VALE

MANCHESTER

Free from all
greasy
substances



A small, very attractive counter display card is sent free with every order.

Confidence

Zonite brand Pessaries are prescribed by the medical profession as a safe and efficient contraceptive, having no injurious effects, and are widely recommended for many inflamed and infected conditions of the vagina.

Employing the powerful antiseptic action of Chloramine in a non-toxic and non-caustic form, they in no way irritate or damage the delicate vaginal tissues or adnexa. Their non-greasy base and convenient shape make them pleasant and easy to use.

As a result of convincing literature and samples being sent to approximately 8,000 doctors and 14,000 nurses and midwives to popularise still further the use of this reliable contraceptive, the public demand for Zonite Pessaries is growing considerably. Offered to the Chemist at 16 to the dozen for initial orders, they prove a profitable and quick selling line. Full particulars from:—Fassett & Johnson, Ltd., 86, Clerkenwell Road, London, E.C.1.

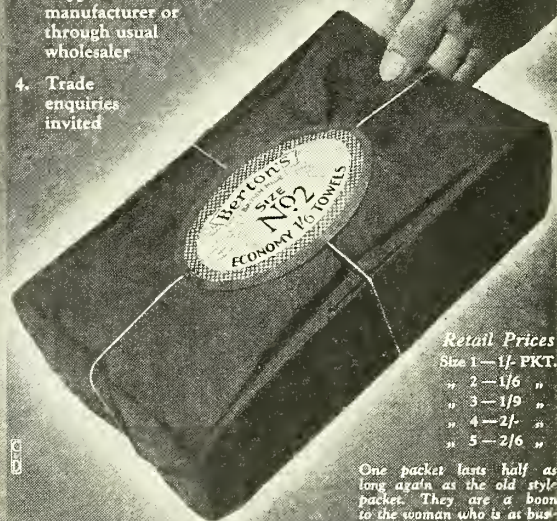


CHLORAMINE PESSARIES

Manufactured by the makers of 'Argyrol.'

Bertons' Economy Sanitary Towel

1. To be nationally advertised as from July 1st in the leading Ladies' Journals
2. Retail Prices show clear 50% on cost
3. Supplied direct from manufacturer or through usual wholesaler
4. Trade enquiries invited



Retail Prices
Size 1—1/- PKT.
" 2—1/6 "
" 3—1/9 "
" 4—2/- "
" 5—2/6 "

One packet lasts half as long again as the old style packet. They are a boon to the woman who is at business or out of doors all day

Arthur Berton Ltd.

Phones: Clerkenwell 1346-7-8-9

Wires: "Aylwin, Finsquare, London."

BRITANNIA HOUSE, OLD ST.
LONDON E.C.1
MANCHESTER: 30 CHAPEL STREET
GLASGOW: 25-31 DUKE STREET

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to
measure we maintain a 24
hour service.

:: BODY BELTS ::
TRUSSES :: SUNDRIES

Write for Catalogue.

SURGICAL HOSIERY CO. LTD.

Russell Street :: NOTTINGHAM

Telephone No.: 75903.

Telegrams: SURGICAL, NOTTM.

To our friends
present & to be
we wish —

*The Compliments
of the Season and
increasing prosperity
throughout 1936*

WALDEN & CO. (NUFIX) LTD.

NUFIX WORKS

Rookery Way, The Hyde,
LONDON, N.W.9

'PHYLLOSAN'

BRAND OF CHLOROPHYLL TABLETS

Regd.

Natural Chemicals Ltd.

wish you the compliments of the Season
and thank you for your co-operation during the past year. Increase of business
has made larger premises necessary and from DECEMBER 25th the new address
of Natural Chemicals Ltd. will be

12 CLIPSTONE ST., LONDON, W.1

Quantity Discount Terms

Quantity discount on all orders for 3
dozen or over (either size or assorted)
afford you a substantial increase of profit.

New Showcards

Attractive new Showcards, printed in
9 colours, are ready for distribution
and will be sent free on request.

Proprietary rights are not claimed in this preparation apart from the registered trade mark
"Phyllosan," which is the property and denotes the products of Natural Chemicals Ltd., London



SOL-VO

REGD

TOILET PAPER

PURE - SOFT - HYGIENIC
(Completely Wrapped)

SELLING AIDS.

A display Showcard and "Personal Hygiene" leaflets with every order.

750 perforations to every roll.

No dirty edges, completely wrapped and sealed.

3 Doz. @ 6/- Doz. 6 Doz. @ 5/9 Doz. 12 Doz. @ 5/3 Doz.
CARRIAGE PAID - NET



FORD, SHAPLAND & CO. LTD.

PRINTERS & WHOLESALE STATIONERS,
GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.1

Telephone: HOLBORN 4695.

Attractive Shops
Attract more Business!

*We specialise in modernising
Chemists' Shops, Interiors and
Furnishings and shall be
pleased to co-operate with
Chemists for any kind of
alterations or additions*



PHARMACY FITTERS FOR
OVER A CENTURY

PHILIP JOSEPHS & SONS LTD.

90-92 ST. JOHN STREET, CLERKENWELL, LONDON, E.C.1

Telephone: Clerkenwell 2191

ESTABLISHED IN 1826

A CONTRACEPTIVE DOCTORS RECOMMEND

Ortho-Gynol—which since its inception has been distributed only through professional channels—is increasingly being recommended and its sales are growing.

Ortho-Gynol is the dependable contraceptive that is effective from the moment of its application. (Douching is contra-indicated for at least 6 to 8 hours.) It is aesthetically acceptable to the large majority. It does not deteriorate in tropical climates. It is independent of the variables—temperature, moisture, pressure.

And finally, Ortho-Gynol is now available in this economical bulk tube, containing sufficient for 15 to 20 applications, with an unbreakable Applicator, for 5/-.

A refill of the same size, but without Applicator, is sold for 4/-.

Ortho-Gynol is also available in the original box of 6 complete units, each with disposable nozzle, for 4/6.



WRITE FOR TRADE TERMS TO:—

Johnson & Johnson
(GT BRITAIN) LIMITED SLOUGH, BUCKS

Associated Companies: AUSTRALIA: Johnson & Johnson Ltd., 194/200 York Street, N. Sydney.

S. AFRICA: Johnson & Johnson (Pty.) Ltd., 20 Pritchard Street, Johannesburg.

Representatives & Agents: INDIA, BURMA, CEYLON, SIAM, MALAYA, EAST INDIES: A. A. Burton, P.B. 330, Bombay, India. CHINA & JAPAN: R. T. Down, Post Box 510, Chinese Post Office, Shanghai. SPAIN: A. Amecazurra, Modesto Lafuente 3, Madrid. NEW ZEALAND: Potter & Birks (N.Z.) Ltd., Adco Buildings, 12-24 Lower Federal St., Auckland.

What of the Future?

KEEP ABREAST OF NEW DEVELOPMENT.

NOT A SEASON GOES BY WITHOUT IMPROVEMENTS AND NEW MODELS ARE ADDED TO OUR RANGE OF SEAMLESS MOULDED HOT WATER BOTTLES.

Write for samples of 3 Quick Sellers to:

RELIANCE RUBBER CO. LTD.
CREMORNE WORKS, LOTS ROAD, S.W.10



SOUTHALLS
SANITARY
TOWELS

The preference of women for Southalls' Sanitary Towels brings steady sales all the year round.

The "ORIGINAL" and most popular.

The "CELTEX" soluble, easily disposed of.

The "K" made entirely of absorbent cotton wool, with very soft cover.

The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

"MOSANS"

Non-Greasy, Odourless

QUININE PESSARIES



15/-
per dozen
boxes

ORDER THROUGH ANY WHOLESALER

or from

MOSANS LABORATORIES 15 ELMCOURT ROAD, S.E. 27

Agents for South Africa: THE MONSOL DISTRIBUTING CO., 16 STANDARD BANK CHAMBERS, JOHANNESBURG.

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.

And All Other Grades To Suit Every Purpose.

Prepared Chalk B.P. and Powdered Talc.

*Phone : Mansion House 7300. Tel. Add. : "Levermore, Phone, London."

A. LEVERMORE & CO. LTD.

110 CANNON STREET, LONDON, E.C.4.

ABC Codes.
6th Edition.



Britain's Permanent Medical Centre

Manufacturers' Display of Medical and Surgical Requirements

BRITISH INDUSTRIES HOUSE

MARBLE ARCH, LONDON, W.1

Telephone : MAYFAIR 8080

NURSE HARVEY'S MIXTURE

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The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

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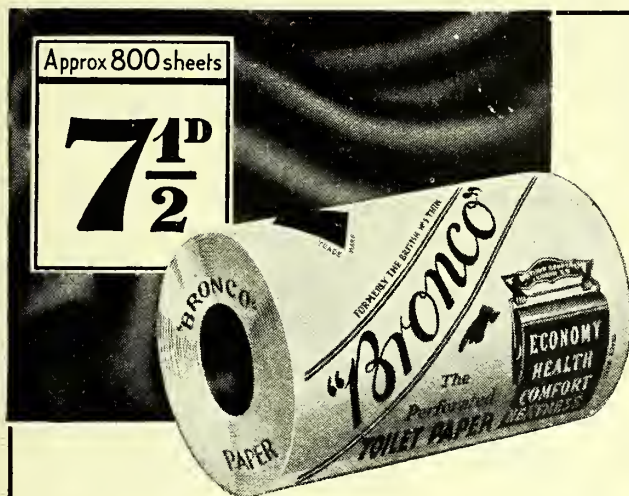
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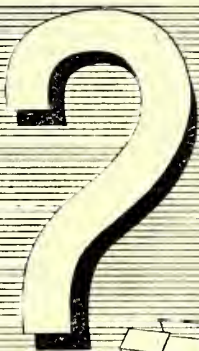
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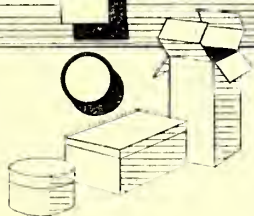
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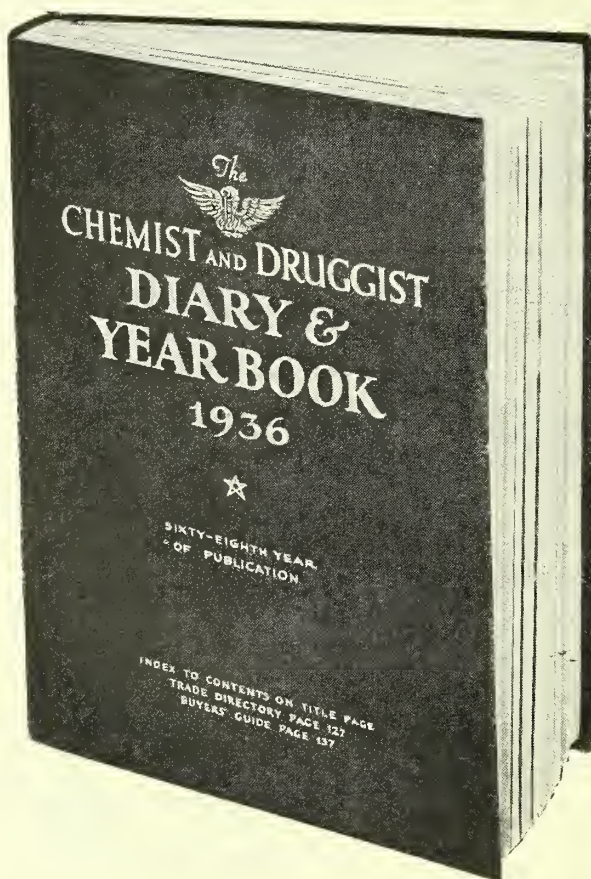
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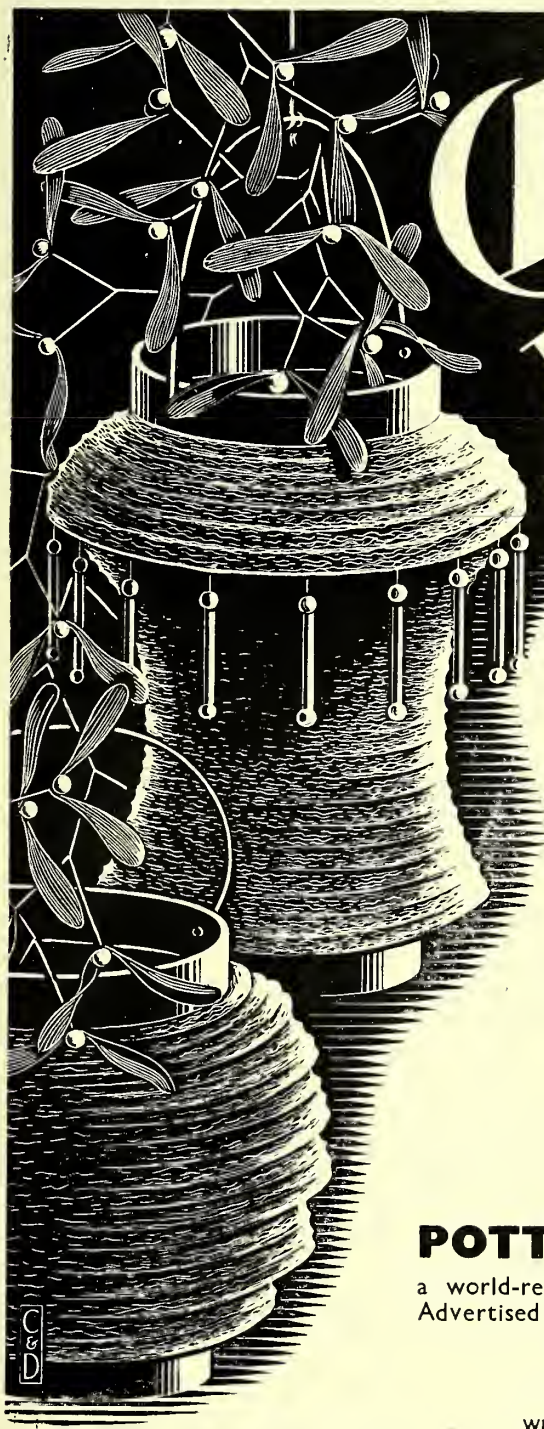
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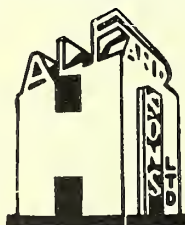
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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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News of the Week

British Standards Institution

The British Standards Institution has issued a series of British standard methods for the testing of bone, skin and fish glues (B.S.S. No. 647-1935). The tests laid down include methods for the determination of moisture content, jelly strength, viscosity, melting point, foam, water absorption, keeping quality, joint strength in shear, reaction, grease, ash, sulphur dioxide and chlorides. Copies of this standard may be obtained from the Publications Department, British Standards Institution, 28 Victoria Street, London, S.W.1, price 3s. 8d. post free.

The Institution has issued a new British standard specification for carbide of calcium. In preparing the new specification the committee have also had the advantages of the views and co-operation of the Dominion interests concerned, as well as the close collaboration of the associated European manufacturers of carbide. Special attention has been given to the standards which obtain in other European countries and particularly the methods of test. The range of standard gradings is specified, together with the limits over and under size and the amount of dust permissible. Limits are laid down for gas yield, scheduled impurities, and the methods for determination of these have been standardised and included in appendices to the specification. The specification also includes detailed descriptions of the methods to be employed for the selection of representative quantities from bulk consignments, and for the preparation of the final samples for testing from the bulk. An important addition to this specification is given in the form of an appendix containing the conditions of sale and purchase. Copies of this new British Standard Specification (B.S.S. No. 642-1935) can be obtained from the Publications Department of the British Standards Institution, 28 Victoria Street, London, S.W.1, price 5s. 3d. post free.

Chemists' Friends Scheme

A meeting of manufacturers who are supporting the Chemists' Friends scheme and of representatives of the National Pharmaceutical Union was held in London recently. Representatives of the following firms attended:—Allen & Hanburys, Ltd.; "Ucal," Ltd.; Genatosan, Ltd.; Alfred Bishop, Ltd.; British Colloids, Ltd.; White's Laboratories, Ltd.; Therapeutic Products, Ltd.; Westminster Laboratories, Ltd. The representatives of the N.P.U. present were Mr. S. J. Stearn (chairman of Executive), Mr. W. Forster (chairman, N.P.U. Marketing Committee), the secretary and assistant secretary of the Union (Mr. G. A. Mallinson and Miss Sharples). Apologies for absence were received from Mr. J. Evans (N.P.U. Executive) and Thos. Kerfoot & Co., Ltd.

It was decided that a provisional committee, to be known as the Chemists' Friends Committee, should be appointed for the first twelve months, consisting of four representatives of manufacturers and four of the N.P.U., with power to add to their number, and it was resolved that Allen & Hanburys, Ltd.; Genatosan, Ltd.; British Colloids, Ltd.; Thos. Kerfoot & Co., Ltd., should represent the manufacturers. The meetings of the Chemists' Friends Committee are to be held monthly. It was also decided that the manufacturers' representatives on the Chemists' Friends Committee should be nominated and elected by ballot by the manufacturers.

It was decided that a representative of the manufacturers' section and of the N.P.U. Executive should be chairman at alternate meetings of the Committee, and that the four firms represented on the Committee should appoint the chairman for the manufacturers' section.

The meeting resolved that the function of the Chemists' Friends Committee should be to administer the Chemists' Friends scheme generally and in particular to exercise on behalf of N.P.U., Ltd., the powers conferred by the Chemists'

Friends agreement in paragraphs 1, 4, 7 and 8 respectively; also that applications for the Chemists' Friends List should be brought before the Committee before being accepted by the N.P.U. It was decided that a conference, including all manufacturers in the Chemists' Friends scheme and the N.P.U. Executive, should be held annually. The meeting also discussed various matters of detail regarding the scheme, and these were referred to the Committee.

Medical Register

The names of the following persons have been restored to the Medical Register, from which they had been erased under Section 14 of the Medical Act, 1858:—

Bushe, Joseph B. (S)	McCullough, William W. (I)
Campbell, James McN. (S)	McElroy, William (S)
Clarke, John J.	Melrose, Thomas R. G. (S)
Cresswell, Norman (I)	Pasco, Bernard C. W.
Dyet (Mrs.) Mary E. (S)	Phillips, Lionel L.
Evison, Frank A.	Rankin, Reginald J.
Jones, William E.	Sleigh, George B. (S)
Kenealy, Arabella M.	Smith, Alistair H. (S)
Lloyd, John T.	Thistlethwaite, Eleanor C. (S)

The following names have been restored to the Register after erasure under Section 29 of the same Act:—Bocarro, James L.; Henry, Philip; and Rubinstein, Harry.

The following names were removed from the Register at the request of the respective practitioners:—Braun, Jean; Bennett, Ralph S.

The Council directed that the name of David Edward Stanford Park, M.B., Ch.B., Erinvile, Paignton, who had been the respondent in a divorce case, be erased from the Register.

(See also *C. & D.*, December 14, p. 714.)

Society for the Study of Alchemy and Early Chemistry

A Society for the Study of Alchemy and Early Chemistry has been founded in London. It is intended to place the study of alchemy and early chemistry on a broad basis, and for this reason the Council of the Society is desirous of securing the co-operation of scholars in various countries. It is proposed to hold regular meetings of the Society, beginning early in 1936, at which papers will be read and discussed, and to publish a journal in which accounts of the papers will be given as well as special articles, written contributions by members of the Society and reviews of books. The Society will be international, but its seat will be in London. The Council includes the following: Professor Partington (chairman), Sir Richard Gregory, Dr. F. Sherwood Taylor, Dr. Malcolm, Dr. Holmyard, Dr. Miall, Dr. McKie, Mr. K. de B. Codrington, Dr. Glanville, Mr. L. F. Gilbert, and Mr. Gerard Heym (honorary secretary), 8 Bream's Buildings, Fetter Lane, London, E.C.4.

Inquests

The Blackburn coroner investigated, on December 11, the death by gas poisoning of Mr. Henry M. Hindle, son of the late Mr. Henry Hindle, chemist and druggist. It was stated that Mr. H. M. Hindle, who had carried on two drug stores and was of independent means, had been worried because of a court case. A verdict of "Suicide whilst of unsound mind" was returned.

Sessional Events

The Isle of Wight Branch of the Pharmaceutical Society, at a recent meeting, unanimously approved the Chemists' Friends scheme.

A general meeting of the Leeds branch of the National Pharmaceutical Union was held at the Hotel Metropole on December 10. Mr. F. Midgley, from the chair, congratulated Mr. Armitage on his re-election to the Council of the P.A.T.A. Mr. F. C. Stock, who gave a talk on "Multiple Firms and Advertising," advocated collective advertising, and suggested that the council of the branch should prepare a scheme and place it before the members.

Mr. G. A. Mallinson addressed a meeting of the Cambridge and District Branch of the N.P.U. on December 5, and urged the members to give their utmost support to the Chemists' Friends movement, the working of which he explained. After a discussion among the members, the following resolution was passed unanimously: "This meeting of the Cambridge and District Branch of the N.P.U. enthusiastically supports

the Chemists' Friends movement, as explained by Mr. Mallinson, and will loyally do its utmost to promote the success of the movement."

A general meeting of the proprietor chemists of Plymouth, Devonport and district was held in Plymouth on December 6, Mr. T. B. Harvey presiding. An address on the Chemists' Friends scheme was given by Mr. C. J. Yeates (a member of the National Pharmaceutical Union Executive), who afterwards replied to numerous questions. It was claimed that already about 1,000 pharmaceutical preparations, including some nationally advertised, had been placed on the list, and that the average number of lines in a chemist's shop was less than 5,000. Some of the manufacturers who had come in were, it was stated, picking up more new business than they could readily cope with, and those who delayed might find it difficult to recover lost friends. A resolution in support of the scheme was carried unanimously.

Birmingham

A hostel at Copeley Hill, Erdington, presented by Mr. and Mrs. Barron Cadbury (Cadbury Brothers, Ltd.), was opened recently by the Home Secretary (Sir John Simon). An experiment in the treatment of juvenile delinquents is to be made here.

Mr. Lawrence C. Tipper is leaving for Australia on January 10 as member of the delegation of the British National Union. He will represent both the Birmingham Chamber of Agriculture and the Central Chamber.

A correspondent writes:—"Nearly all the shops in Birmingham are to be closed for three days at Christmastide—Christmas Day, Boxing Day and Friday. This will affect about 35,000 shop assistants. The grocery and other food shops will open on Friday for as long as is necessary in the opinion of the shopkeepers.

The buildings in which the Birmingham section of the British Industries Fair is housed at Castle Bromwich are being greatly extended to provide space for increased applications. The management have prepared an attractive brochure giving on the front the exhibitor's name and stand number; the first fold repeats the name, while the back of the brochure carries the exhibitor's own message.

Blackpool

The annual meeting of the British Association will be held next year in Blackpool from September 9 to 16, under the presidency of Sir Josiah Stamp.

The Blackpool branches of Boots, Ltd., held their annual staff whist drive, supper and dance at Booth's Café, Blackpool, recently. The event proved a great success. Messrs. E. Smith and Mullineaux acted as M.C.s for whist and Mr. Langton for dancing.

Five Blackpool chemists (Messrs. Kemp, Hindle, Howarth, Boden, and Aspden) with shops in the Central Drive and Grasmere Road district have adopted a rota for winter opening on Sundays and Wednesday evenings. Notices at the closed premises inform the public which of the five chemists is open.

Some 180 members, trade friends and their ladies took part in the annual whist drive, dinner and dance of the Blackpool Branch of the Pharmaceutical Society, held on December 4 at the Queen's Hydro, South Shore, Blackpool. Messrs. J. P. Sidebottom and J. Cardwell acted as M.C.s for the whist drive, and Messrs. J. Dyson and S. C. Coope officiated in a similar capacity for the dancing which came later. At dinner, in brief speeches Mr. Coope proposed "The President," Mr. H. Hall replying; and Mr. T. A. Durkin "The Ladies and Visitors," Mr. N. Wood, Liverpool, replying. Mrs. H. Hall (wife of the president) distributed over thirty whist prizes given by various firms. Mr. A. R. Sidebottom (secretary) and the committee organised the successful event.

Exeter

At the meeting of the Devon County Council on December 12, the report of the diseases of animals subcommittee recommended that the inspection of premises and the keeping of a list of persons should be done by an official of the Council. Mr. Philip F. Rowsell pointed out, however, that the official

designated was a full-time analyst under the Council, and that a large increase in the number of premises from which poisons would be sold was anticipated. On his suggestion the matter was referred back to the subcommittee.

Llandudno

At a meeting of the Anglesey, North Carnarvonshire and Colwyn Bay Branch of the Pharmaceutical Society at Llandudno on December 11, members expressed pleasure at the interest shown by the Society's Council in the matter of unqualified hospital dispensers. It was revealed that one hospital in the area had lately appointed a registered chemist as part-time dispenser. Nine members were nominated as representatives at a meeting at Wrexham to further co-operation between Welsh branches of the Pharmaceutical Society on January 8. Mr. Yates, Colwyn Bay, drew attention to the lack of facilities in North Wales for preparing students for the Preliminary Scientific examination. It was resolved that the branch take up the matter with the Society's Council. Miss Jeremy and Mr. B. R. Jones were thanked for organising the Benevolent Fund Dance, which realised £17 3s. 6d.

Leicester

"Dispensing Problems" were discussed by Mr. C. Gunn, B.Pharm., Ph.C., before the Leicester branch of the Pharmaceutical Society at the College of Technology on December 10, Mr. P. C. G. Stiles in the chair. Mr. Gunn dealt with a number of prescriptions containing luminal, mixtures containing aspirin in the presence of salts of alkali metals (e.g., potassium citrate) and several ointments and emulsions requiring special methods of preparation. He pointed out that in spite of considerable expression of opinion as to the production of a homogeneous paint containing iodine, acetic ether and glycerin, no observation had apparently been made of the fact that trituration of the three constituents in a mortar for even three or four minutes sufficed for the volatilisation of nearly all the acetic ether. The finished product would in reality be a simple solution of iodine in glycerin. He had found that what appeared to be an emulsion (a micro-slide of which was exhibited) could be produced by gently heating the ingredients in a stoppered bottle for some hours.

Liverpool

From January 1, a five-day working week is to be introduced at Port Sunlight and in the factories of the associated companies of Lever Brothers, Ltd.

At Liverpool University, recently, Sir Christopher Clayton, director of Imperial Chemical Industries, Ltd., and former M.P. for Wirral, was presented with the silver medal of the University Chemical Society.

An interesting address, illustrated by lantern slides, was given before members of the Liverpool section of the Chemical Society and associated societies at Liverpool University on December 10, when Professor R. Robinson dealt with the "Formation of Anthocyanins in Plants."

Preparations are being made in south-west Lancashire in anticipation of the British Pharmaceutical Conference meeting in Liverpool in 1937. Consideration has been given by a committee as to the best means of raising the necessary funds, and it is proposed that Liverpool pharmacists should subscribe £500, Southport £100, Birkenhead £100 and Wallasey £100.

London

The annual dance of McClure, Young & Co., Ltd., was held at the Western Avenue Hotel, East Acton, on December 12. Music was provided by Phil Hudson and his Sylvians. An enjoyable evening was spent.

In the King's Bench Division of the High Court, on December 16, before Mr. Justice Charles, Mr. G. O. Slade, who appeared for the plaintiff in the case of Halls v. The British Drug Houses, Ltd., said the Court would not be troubled with the case. The defendants (represented by Mr. Humphrey Edmunds) had agreed to submit to judgment for the sum of £875, with costs. His Lordship: Very well.

At West London Police Court, on December 17, Rudolph M. Hindhaugh (36), charged on remand with forging a doctor's prescription for twelve doses of morphine hydrochloride (*C & D.*, December 14, p. 696) was discharged. Mr. H. Pierron, defending, pointed out that the preparation was not

scheduled as a "dangerous" one, and argued that the chemist would have made a profit out of the transaction and could not be defrauded.

Manchester

Traders in Oxford Road are complaining that their business has been seriously affected by the diversion of certain bus services on their way to Piccadilly.

To win a wager made by two friends, Mr. H. G. Jackson, a chemist in St. James Street, Broughton, entered a lion's den with the trainer at a local circus. Mr. Jackson entered the cage again after the crowd had left, while photographers took flashlight pictures.

Nottingham

Mr. T. H. Gray (chairman of the Nottingham section of the Society of Chemical Industry) on December 11 delivered an address on "Glycerin and its uses" to members of the Nottingham and District Branch of the Pharmaceutical Society. Commencing with its discovery in 1779 by Scheele, he traced its development and increasing usefulness until it had now over 300 different purposes in a variety of trades. Most wines contained a percentage to give body. It was used to control the tempering of steel. Razor blades immersed in it were said to retain and regain their keenness. At the present time there was a world shortage due to its use in blasting and road-making. Its crystallisation was not yet understood. The smallest possible crystal was sufficient to cause a whole drum to crystallise. Messrs. Bates (chairman), Shepherd, Beilby, Newbould, Ball, Bull, Gill, Clay and Hyde took part in the discussion.

Reading

A meeting of the Reading and District Branch of the Pharmaceutical Society was held at Willison's Hotel, Reading, on December 12, Mr. G. Green in the chair. Dr. Sidney Gilford, J.P., gave a lecture on "Insomnia." He stated that he chose the subject in consequence of a visit to the Birmingham Pricing Bureau. An investigation there had revealed the extensive use of drugs of the barbituric acid group. The lecturer discussed the following remedies for insomnia: Alcohol; opium; bromides; chloral hydrate; sulphonal; paraldehyde; cannabis Indica; hyoscine; barbituric acid group. After the lecture the secretary, starting with urea and malonic acid, specimens of which were shown, demonstrated by the aid of chemical models the structure of barbituric acid and its derivatives.

Miscellaneous

THE ROYAL INSTITUTION.—The subject of the forthcoming series of Christmas lectures, beginning on December 28, is "Photography"; the lecturer is Dr. C. E. K. Mees.

MEDICAL REGISTER.—We are reminded that orders for the office edition of the Medical Register, 1936, published by the General Medical Council at the special price of 10s. a copy, post free, must be received, with a remittance, at the office of the Council not later than December 31, 1935.

THE CEYLON TRADE JOURNAL.—The Ceylon Bureau of Industry and Commerce, Colombo, has published the first issue of this journal, which contains a detailed monthly review of the island's economic position, productions, imports and exports. The annual subscription is Rs. 3 per annum.

PARIS TRADE FAIR.—The Paris International Trade Fair (Foire de Paris) will be held next year from May 16 to June 2. Intending exhibitors from this country are invited to get in touch with the London office of the Fair at 17 Tothill Street, S.W.1. The head office of the Fair is 23 rue Notre-Dame des Victoires, Paris.

LEVANT FAIR PUBLICATIONS.—In connection with the Levant Fair, 1936, an illustrated prospectus has been published which furnishes full details as to the scope of the exhibition. In addition, the prospectus constitutes a pictorial and verbal account of the previous Levant Fair. Other publicity material now available includes a sixteen-page booklet containing excerpts from the Press of eighteen countries referring to the Levant Fair as well as from reports on official participation in the exhibition; the official report (fifteen pages) on the Levant Fair, 1934; the catalogue of the Levant Fair, 1934. The Levant Fair Authorities will be glad to supply this material to those interested. Application should be made to the Levant Fair Publicity Department, P.O.B. 21 Tel Aviv, Palestine.

Irish Notes

The Pharmaceutical Society's Diamond Jubilee

The proposal to hold a banquet to celebrate the Diamond Jubilee of the Pharmaceutical Society of Ireland has been received with marked enthusiasm by pharmacists all over the Free State. Letters received by the Dinner Committee indicate that there will be a great gathering at the Gresham Hotel, Dublin, on January 9. The committee had hoped to arrange a dance after the banquet, but this was not found feasible. A concert has, however, been arranged, for which the services of many distinguished artists have been retained. Chemists taking their wives, other lady friends or making up parties should make reservation of seats as early as possible. Invitations have been extended to the presidents of the Pharmaceutical Society of Great Britain and of the Northern Ireland Pharmaceutical Society.

Ladies' Committee of the Belfast Conference

The final meeting of the ladies' committee of the Belfast meeting of the British Pharmaceutical Conference was held at Belfast on December 11. The chairman (Mrs. Fred Storey) presided, and the following were present:—Mrs. S. S. Badger, Mrs. W. Martin, Mrs. R. I. Edwards, Mrs. C. Abernethy, Miss Barry, B.Sc., Ph.C., Miss Laverty, Ph.C., Miss Robinson, Ph.C., Miss Patterson, Ph.C., and Mrs. Dwen (secretary and treasurer). Mr. Fred Storey, Ph.C. (chairman of the Local Committee), was in attendance. A resolution was passed authorising Mrs. Dwen to hand over the balance of funds to the treasurer of the Local Committee.

Mr. Storey said he attended personally to thank Mrs. Storey, Mrs. Dwen and each member of the ladies' committee for all they had done to make the Conference such a success by collecting such a magnificent sum—considerably over £200—and also for all their help and assistance at the various functions. He could assure them that he himself and all the members of the Local Committee received tremendous encouragement when they saw the successful way the ladies tackled their work. They organised the splendid pre-Conference dances, whist drives, bridge drives and teas, bringing the members of the craft together with their families and friends in a way never achieved before. It would be a great pity if all these functions should be allowed to drop; he hoped they would be continued, say, in aid of a Benevolent Fund.

Miss Laverty said a dance should be organised; a number of people had asked her when their next dance would take place. Miss Barry felt that a dance would be well supported. Mrs. Badger said she would like to take this opportunity of thanking Mrs. Storey, Mrs. Dwen, and also their chairman, Mr. Storey, for all they had done. They were all proud of them. She had received numerous letters from visitors who attended the Conference expressing in the very highest terms their appreciation of their reception. Mrs. Abernethy moved, Mrs. Badger seconded, and Mrs. Edwards supported, a vote of thanks on behalf of the Committee to Mrs. Storey for her kind hospitality. This was passed by acclamation. On the motion of Mrs. Martin, seconded by Miss Patterson, it was unanimously agreed to continue the committee as a social committee, with power to add to their numbers, to help to organise dances and other social functions in aid of a Benevolent Fund.

Mrs. Storey thanked Mrs. Badger and the other ladies for their kind remarks, and said it had been a very great pleasure to her to work for the Conference and also to work with the Committee. She would like to thank them all, especially Mrs. Dwen, for the way they had all stuck to her and worked. She was sorry the Conference was over, but was glad the good work would continue.

Irish Drug Association

Mr. T. C. Scott (president) was in the chair at the fortnightly meeting of the Committee of the Irish Drug Association, held on December 16, when there was a large attendance of members. The Committee decided to direct their members to ensure that the many new lines now being introduced to pharmacists are being marketed by firms on the Approved List. With a view to investigating the conditions consequent upon the new policy of the Association the Committee decided upon a joint conference between the I.D.A. and the leading drug houses in the Free State, at a date to be fixed. Mr.

Brendan Smith (organiser) was deputed to call on the firms concerned to fix a convenient time. A motion that the Association should contribute to the Pharmaceutical Society's Diamond Jubilee Dinner Fund was passed unanimously. Applications to be placed on the Approved List were dealt with. The Committee had again before it complaints regarding the distribution of coupons and gift stamps by retail chemists to customers, and members were requested not to participate in any schemes of this kind. It was reported that grocers in many areas were endeavouring to defeat the I.D.A. policy by endeavouring to obtain supplies of confined lines surreptitiously from retail chemists. The Committee request all retail chemists to refuse to supply any of these lines to non-pharmaceutical traders, except at full retail prices.

Monaghan and Cavan

Mr. Burke presided at a meeting of the chemists of Monaghan and Cavan in Cavan recently, at which there were chemists from Belturbet, Ballinagh, and other centres. Mr. B. P. Hickey, M.C.P.S.I., Rush (secretary of the North Leinster Drug Federation), and Mr. B. Smith (organiser of the Irish Drug Association) were also present. It was decided that on and after January 1 all present would cease co-operating in Penny and all other Sales, and that if, in consequence of this action, any member should lose an agency, no other member would accept it. All pharmacists and druggists in Cavan, Monaghan and Louth would be circularised to this effect. It was the considered opinion of those present that the committee should insert prices for packed tablets in the Price List. Some prices fixed by the I.D.A. were criticised. Mr. Smith replied that if members thought prices did not suit a particular area, they should communicate with the Association. Chemists in some other areas also had difficulties. Allowing area prices would be very detrimental to the Association as a whole. The meeting decided to discontinue giving discounts to certain people in official positions. Mr. Hickey spoke of the efforts of the Pharmaceutical Society to protect the interests of chemists and druggists. It was the duty, he said, of any chemist or druggist, to report any infringement of the Pharmacy Act immediately to the Registrar, whereupon suitable action would be taken. Members agreed to abide loyally by the I.D.A.'s approved list of manufacturers.

Brevities

Mr. F. M. Mallen, L.P.S.I., is shortly opening a new pharmacy at Abbey Road, Howth.

The demand for increased rates of wages and shorter hours of working made by the chemists' branch of the Irish Distributive Workers' Union, came before the Committee of the Irish Drug Association at its meeting on December 16, Mr. T. C. Scott in the chair. The Committee decided to call a special general meeting early in January to deal with the matter.

Belfast

Councillor R. J. Groves, Ph.C., has been appointed a member of the Belfast Education Committee.

Dublin

Following on the report that chemists in Middlesex sometimes have to call on one doctor to decipher the prescription given by another, the "Irish Independent" sent out one of its reporters to find an answer to the question "Are Dublin doctors good writers?" One group of chemists, he says, definitely stated that the writing of Dublin doctors did not give much trouble. Others, the reporter relates, held that many of the City's medical men wrote so indistinctly that it was quite a problem to read their prescriptions. "The first chemist I visited," wrote the "Independent" representative, "said, with a smile, 'Well, you know when you see a group of chemists in serious conversation you can be sure they are discussing the bad writing of doctors. That is a standing joke with them'." This chemist, however, admitted that generally the writing of Dublin doctors gave very little serious trouble. The last chemist seen said it was not an infrequent thing for one chemist to telephone to another who had handled the same prescription and ask him what an ingredient written by the doctor was.

Scottish Notes

Brevities

Mr. William Bruce, chemist and druggist, Larkhall, Lanarkshire, has been elected an honorary president of the local merchants' association.

A communication submitted to the Campsie and Baldernock District Council from the Stirlingshire Public Assistance Committee stated that the account for medicine for Campsie for the past half-year amounted to £71 2s. 9d. In 1933 the medicine bill was £63 12s. 6d. and in 1934 £126 19s. 6d.

The annual reunion dinner and dance of the Dundee School of Pharmacy Former Students' Association will be held at Gray's Rooms, Perth Road, Dundee, on December 27 at 8 p.m. Tickets, 5s. each, may be obtained from the secretary, Mr. W. E. Foote, 41 Glenprosen Terrace, Dundee.

Edinburgh

The North British Branch of the Pharmaceutical Society held the second evening meeting of the session at 36 York Place, Edinburgh, on December 13. Mr. F. W. M. Bennett, chairman of the Executive, presiding. Mr. Bennett made sympathetic reference to Mr. Wilson Dougal, Ph.D., whose death occurred recently. A paper was read by Mr. E. G. V. Percival, Ph.D., Edinburgh University, on "The Chemical Nature of Vitamins with Special Reference to Ascorbic Acid (Vitamin C)" (see p. 736), and Mr. H. W. Blair contributed a "Note on Cascara Sagrada: An Unusual Adulterant" (see p. 737).

An address on "Emulsions" was given by the president (Mr. F. J. Jackson, Ph.C.) to the Edinburgh Chemists' Assistants' and Apprentices' Association on December 6. The occasion was the second meeting of the fifty-eighth session, held at the Pharmaceutical Society's House, 36 York Place, Edinburgh. Mr. Archibald Currie, Ph.C., was in the chair. The lecturer explained the difference between an "oil-in-water" and a "water-in-oil" emulsion, indicating how they could be distinguished. Two small emulsifying machines of the homogenising type were shown which could be purchased by the retail pharmacist.

"Works Hygiene and Accident Prevention" was the title of a paper read by Mr. W. G. Hiscock at a joint meeting of the Edinburgh and East of Scotland sections of the Institute

of Chemistry and the Society of Chemical Industry held in Edinburgh on December 12. Mr. Hiscock said that the dye-stuffs industry, with its multitude of poisons, irritants, corrosives and its complicated plant, has as difficult a task as any in combating accidents. Mr. Hiscock summarised, with lantern illustrations, the methods employed to ensure safety in his own organisation, which included the following: Medical service, vocational testing of young workers, followed by intensive training; printed or written instructions to cover every operation, scheduling of the dangers to be met with, the precautions to be taken, the symptoms to be looked for, and the first-aid treatment in each case; plant design, protective clothing and appliances; first-aid service; propaganda; and the recreation club. An examination of the statistics since 1931 showed that accidents had been reduced from 52 in 1931 to 16 in 1934 and 12 in the first eleven months of 1935. The frequency rate had been reduced from 4.08 in 1931 to 1.22 in 1934. Dermatitis cases had been reduced from 6 to 1, and nitrobenzol poisoning from 9 to 1 over the same period. Fires necessitating calling out the works fire brigade were 14 in 1931, but none had occurred so far in 1935. A record of 182 successive accident-free days, or 669,216 exposure hours, had been established with a factory containing over 600 staff and workers. That was a record of which the works were justly proud.

Glasgow

Glasgow grocers have protested against the basis of the proposals to make an extra charge for the collection of refuse (C. & D., November 30, p. 643). They urge that the charges, if imposed, should be according to rental. At a recent meeting one speaker expressed the view that if shopkeepers generally had been better organised they would never have allowed such a proposal to slip into a provisional order; another that shopkeepers already paid very heavy rates and were surely entitled to free service for all trade refuse.

Dr. J. M. Johnston (Department of Health for Scotland) recently addressed a meeting of the National Health Insurance section of the Insurance and Actuarial Society of Glasgow on "Some Problems of Therapeutics in National Health Insurance." Many patients, he said, felt that a visit to the doctor was incomplete if they received no prescription. Their education was urgently required, not merely through medical channels but more especially by all administrative bodies associated with the N.H.I. and other health organisations.

Topical Reflections

By Xrayser

In My Opinion

there is no necessity for the private chemist to fear unduly the competition of the multiple shops; I cannot visualise a time when there will be no proprietor pharmacists because they all will be working for the company shops (see "Collective Advertising" letter, C. & D., December 14, p. 719). I was interested in reading lately the report of a discussion at a meeting of sales managers on this subject; a speaker for the private dealer (not necessarily a chemist) debated with a representative of one of the big chemists' combines. The point was made by the former that the individual dealer gave social service in a district to an extent that the manager of a branch shop could never do. Generally speaking, he settles down for a long period and associates himself with the social life of the community. Often he is a keen sportsman, a Rotarian or a member of the town council, with all that this implies. In these ways he has an advantage over the manager of the company shop, who is generally a bird of passage; business comes to him through channels not available to his store competitor. I came across an old friend recently who has a pharmacy in a small town where there is a branch of one of our large combines. He told me that he was quite unaffected by this branch so far as medicinal products were concerned. His customers admitted that they visited the branch shops for the use of the library and occasionally purchased fancy goods there, but for drugs they preferred to come to him. I am, of course, assuming that the private

chemist will give an efficient service, and that the prices of the goods he sells will be reasonable although not necessarily so low as those of the multiple shops. These have a very long way to go before they absorb the private pharmacist.

These Notes

are the last that will appear before Christmas and I tender to all readers the compliments of the season, hoping that they will enjoy a very happy Christmas. I am old enough to realise how greatly the festive season has changed for pharmacy and how much better off is the present-day pharmacist in this connection than were those of thirty or forty years ago. I think particularly of the different conditions of lighting and warmth. As an apprentice I had to warm my chilblained fingers over the heat given out from a small oil stove, and lighting was either from paraffin lamps suspended from the ceiling or "fish-tailed" gas jets, either of which did little more than make the darkness visible. Under such conditions, what chance had the chemist of making a display of anything where-with to tempt his customers? Occasionally we sold a bottle of lavender water or eau de Cologne on Christmas Eve; my recollection is that on that day we closed the pharmacy in quite good time. In 1935 the shops have warmth, lights in all colours, plate-glass windows filled with articles of the greatest variety, eager buyers, and at the end of the long day before Christmas a satisfactory sum in the till. So, when the tired pharmacist shuts his shop, let him count himself lucky that he is in business in the year of grace 1935—with all its troubles.

Legal Reports

Retirement by Ballot.—The Court of Appeal (Master of the Rolls and Lords Justices Romer and Greene) on December 18 allowed the appeal of Professor John William Henry Eyre, bacteriologist, Portland Place, London, W.1, from Mr. Justice Eve's order refusing him an injunction restraining Milton Proprietary, Ltd., and Mr. Henry Smith Clough, chairman of the company, from issuing a notice for the company's general meeting fixed for December 19, 1935, stating that he (plaintiff), as a director, was retiring by rotation and was eligible for re-election. In an affidavit read by his counsel, Sir Stafford Cripps, K.C., the appellant said he declined to retire as requested, and contended that if he had to retire it should be decided by lot among the board and not by voting paper. After hearing arguments by Sir Stafford Cripps, K.C., and Mr. C. J. Radcliffe, K.C., for the defendants, the Master of the Rolls gave judgment. He said the plaintiff was elected a director in February 1934, and one of the questions was, what was the meaning of the word "ballot" where it occurred in one of the articles of association, which stated that where retiring directors had served for an equal period, in the event of disagreement "a retirement shall be determined by ballot"? The word was capable of meaning either "secret vote" or "chance," but his lordship said he had reached the conclusion that, in view of the language of the article as a whole, it meant "by lot." That was the meaning the plaintiff had contended for. The other question was what was meant by the words in the article "the whole number of directors." His opinion was that the number was five, that only one director was due to retire and that director was not the plaintiff, which had been admitted.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

YADIL (1935), LTD. (P.C.).—Capital £100. Objects: To acquire (1) the drug business and the business of proprietors and vendors of the proprietary article or patent medicine known as "Yadil" carried on by Yadil, Ltd., at 7-8 Milverton Street, Kennington, S.E., and (2) the drug business and business of sole proprietors and vendors of the proprietary article and patent medicine known as "Barnold" carried on by Barnold, Ltd., at the above address, to adopt agreements (1) between Yadil, Ltd., W. J. Bartholomew, S. C. Butcher, S. Kerr and Sangers, Ltd. (for the company), and (2) between Barnold, Ltd., W. J. Bartholomew, S. C. Butcher, S. Kerr and Sangers, Ltd. (for the company), and to carry on the business of chemists and druggists, etc. The first directors are not named. Solicitors: Underwood, Piper & Heys-Jones, 12-13 Holles Street, W.1.

BEECHAMS PILLS, LTD.—Second interim dividend on the deferred shares of 12½ per cent., making 25 per cent. to date. The total dividend for 1933-34 was 27½ per cent., of which 7½ per cent. was paid as an interim dividend and 20 per cent. as a final distribution.

MR. W. H. STILES, Doncaster, asks us to state in connection with the report published on p. 701 of our last issue that he was granted an annulment of adjudication of bankruptcy and that he paid a supplementary dividend of 17s. 2½d. which, with the dividend of 2s. 9½d. in the £ paid by the trustee, made a total dividend of 20s. in the £. All proved claims were paid in full with statutory interest at 4 per cent. per annum. On the annulment being granted, the records were expunged from the Court.

LEWIS & PEAT, LTD.—The directors estimate that results of trading for year 1935, together with credit balance brought forward from 1934, will enable company to write down value of remaining stock of white pepper to 4d. per lb. (in bond), which is approximately 1d. per lb. below present quotations. After making this provision, it is estimated that there will remain to credit of profit and loss an amount sufficient to justify payment of preference dividend for half-year ended

June 30, 1935, which was postponed owing to the uncertainty of the value of the stock of white pepper. It is, therefore, proposed to pay this dividend on December 31.

T. & H. SMITH, LTD.—The balance at credit of profit and loss account as at March 31, 1935 (including the balance of £2,258 brought forward from last year), after deducting the dividend on the preference shares for the year to March 31, 1935, and paying directors' fees, £312, is £3,500. Directors recommend that there be transferred from the reserve fund £1,000, making available the sum of £4,500, which the directors recommend should be applied in paying a dividend for the year at the rate of 1½ per cent. on the ordinary shares (from which dividend income tax will be deducted), £3,750, leaving a balance of £750 to be carried forward to next year.

GENERAL APOTHECARIES CO., LTD., 49 Berners Street, W.1. —Mr. Justice Eve, in the Chancery Division had before him the petition for confirming the reduction of the capital of this company from £24,000 to £18,000. There was no opposition to the petition. Mr. Cyril J. Parton (instructed by Messrs. Dod, Longstaffe & Fenwick), who appeared for the company, said the company was incorporated in 1860, and the offices were situated in Berners Street, London. The original capital of the company was £7,500 divided into 1,500 shares of £5 each. It was increased. On October 12, 1934, at an extraordinary meeting of the company it was decided that the capital of the company be reduced from £24,000 (divided into 1,000 preference shares of £4 each and 5,000 ordinary shares of £4 each) to £18,000 (divided into 1,000 preference shares of £3 each and 5,000 ordinary shares of £3 each). That such reduction be effected by returning paid-up capital to the extent of £1 per share to the holders of the 1,000 preference shares and to the holders of the 3,693 issued ordinary shares which were fully paid up; by extinguishing the liability of £1 in respect of uncalled capital on the other of the 3,694 issued ordinary shares on which £3 only had been paid up and by reducing the nominal amount of all the preference and ordinary shares of the company from £4 to £3. The capital proposed to be paid off was in excess of the wants of the company. Mr. Justice Eve confirmed the reduction.

SOUTH AFRICAN DRUGGISTS, LTD.—A public issue of 400,000 cumulative preference shares of £1 each at 21s. per share and 400,000 ordinary shares of 5s. each at 7s. per share was opened and closed on Tuesday, December 17, 1935. Capital, £800,000. Objects: The company was incorporated as a holding company in the Union of South Africa on December 9, 1935, for the purposes specified in its Memorandum of Association and in particular to acquire control of the business of wholesale druggists now carried on in Johannesburg, Durban and other places in South Africa by Sive Brothers and Karnovsky, Ltd., which also carries on business at Durban as South African Drug Houses, and its subsidiaries, namely, MacDonald Adams & Co., Ltd.; P. Grant Smith (Transvaal), Ltd., which also carries on business as P. Grant Smith & Co., Durban; W. F. Davis, Ltd.; Associated Proprietary Agencies, Ltd.; B. P. Davis, Ltd.; Transvaal Drug Co., Ltd. By Contract No. 1 below, the company has agreed to acquire (*inter alia*) the entire issued share and loan capital of Graham Properties, Ltd., which owns the greater part of the shares of Sive Brothers and Karnovsky, Ltd., and such of the shares of Sive Brothers and Karnovsky, Ltd., and its subsidiaries referred to above as are not held by Graham Properties, Ltd., or one or more of the above-mentioned companies, with the exception of 800 ordinary shares of £1 each, out of a total issued share capital of £65,000, of MacDonald Adams & Co., Ltd. The company will thus, on completion of this purchase, own directly or indirectly the whole of the issued share capitals of the above-mentioned companies, with the one exception noted above. Directors: Herman Louis Karnovsky, 39 St. Patrick Road, Houghton Estate, Johannesburg (chairman and managing director); Abraham Sive, 62 St. Patrick Road, Houghton Estate, Johannesburg; Solomon Louis Sive, Pope Street, corner of Cavendish Road, Bellevue, Johannesburg, directors of Sive Brothers and Karnovsky, Ltd. London Committee: Joseph Stanley Holmes, M.P., 68 Pall Mall, London, S.W.1, chartered accountant (managing director of Beechams Pills, Ltd.); Frederick John Smith, Holland House, Arkwright Road, Hampstead, London, N.W.3 (managing director of Sangers, Ltd.), alternate directors. R.O.: 21 Kerk Street, Johannesburg. London Registrars: Quadrant Trust, Ltd., 55/6 Pall Mall, London, S.W.1. The lists were closed five minutes after opening, applications totaling twenty-five times the amount of the issue.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on December 10 at 67 Lower Mount Street, Dublin. Mr. J. F. Costello (president) in the chair. Other members of the Council present were Messrs. J. A. O'Rourke, F. J. Fitzpatrick, D. W. P. Boyd, Dr. J. A. Mitchell, M. J. Kieran, J. Duggan, T. J. Smith, P. Brook-Kelly, K. Whelehan, B. P. Hickey, W. J. McKnight, J. Gleeson, C. Cremon, and P. C. Cahill.

DEATH

MR. KIERAN moved a vote of sympathy with the relatives of the late Dr. Seamus O'Beirn, M.P.S.I. Proposing the motion, Mr. Kieran paid tribute to the work of the late Dr. O'Beirn in the Irish-Ireland movement, and the great services he rendered the Irish language in the early days of the Gaelic League.

THE PRESIDENT seconded the vote, which was passed in silence, all members standing.

AMENDED REGULATIONS

THE REGISTRAR (Mr. J. J. Kerr) read the following letter received from the Secretary, Department of Justice: "I am directed by the Minister for Justice to refer to your letter of the 10th ult., submitting for the Minister's approval alterations which have been made in the Society's Regulations and to forward for your observations the attached copy of a letter and enclosure, which have been received from the Governor of the Apothecaries' Hall of Ireland, protesting against changes in the scale of fees, which have been made by the alterations in the Regulations."

The letter referred to, which was written by Dr. M. Ryan, Governor of the Apothecaries' Hall of Ireland, to the Minister for Justice, was as follows: "Dear Sir, we beg respectfully to bring to your notice that a notice of motion (copy enclosed) has been passed at the recent meeting of the Pharmaceutical Society of Ireland, and that this notice of proposed alteration of the scale of fees has been forwarded to you for sanction. We are the parent body of the Pharmaceutical Society of Ireland, and the proposed new scale of fees affects our licentiates. No notice of the proposed alteration has been issued to us, and we strongly oppose any alteration in the fees hitherto paid by our licentiates. Before making any order on the subject we would respectfully request that you consult our Governing Body."

The Registrar stated that the following reply had been sent to the Department of Justice: "In reply to your letter, there is no foundation whatever for the statement that the Apothecaries' Hall is the parent body of the Pharmaceutical Society of Ireland, as this Society was founded by Statute in 1875. By Regulation 6 we propose to charge a registration fee of ten guineas to chemists passing our Qualifying examination. We also propose that licentiate apothecaries, on being registered as pharmaceutical chemists, shall pay the same registration fee. No differentiation is made against apothecaries in the matter. The reason for making the charge for registration is that once a person is on the Register he is not required to pay anything further to the Society, whilst the Society is bound by Statute to publish his name in the register as long as he lives. It is only fair that every person registered should contribute to the cost of maintaining the Society."

The Council unanimously approved of the reply sent by the registrar.

REGISTRATION ITEMS

The following, who submitted matriculation certificates, were granted Preliminary registration: Miss M. P. Moloney, Miss E. McMahon, Messrs. John McEvilly, Patrick Fitzsimons, J. C. Greaney, and Thos. Murphy.

CHANGES OF ADDRESS

The following changes of address were notified: Mrs. E. M. Maher, M.P.S.I., from 77 Carlingford Road, Drumcondra, to Rogan's Medical Hall, 18 Quinsboro Road, Bray. Mr. F. J. MacMahon, M.P.S.I., Medical Hall, Market Street, Ballyjames-

duff, co. Cavan, to 3 Carysfort Avenue, Blackrock, co. Dublin. Mr. R. J. Hardy, M.P.S.I., from 1 Rathmines Terrace, Dublin, to 276 Lower Rathmines Road, Dublin. Mr. J. M. Gorry, M.P.S.I., from Main Street, Naas, to 4 Charles Street, New Ross. Mr. Patrick T. Keogh, M.P.S.I., from Ardagh, Kimmage Road West, to c/o Irish Pharmaceuticals, Ltd., Basin Lane, Dublin. Mr. J. F. Barragry, L.P.S.I., from 36 Botanic Avenue, Drumcondra, to 121 Hollybank Road, Drumcondra. Mr. J. Mackle, L.P.S.I., from Ballinamore, co. Leitrim, to Dowling's Pharmacy, Ltd., Edenderry, Offaly. Mr. T. J. McCabe, L.P.S.I., from 5 Belton Park, Donnycarney, to 63 Park Street, Dundalk. Mr. R. Ellis, R.D., from 32 Park Road West, Wolverhampton, to 1 Ridgway Avenue, Rhyd, Flintshire.

COMMITTEES' REPORTS

The reports of the Law, House, Schools, and Housing Sub-committees were submitted and approved.

On consideration of the report of the Benevolent Fund Committee, it was reported that a subscription to the Fund of £4 10s. had been received from Mr. P. Liston, M.P.S.I., on behalf of the Limerick Chemists' Association. Other subscriptions received were £1 1s. from Mr. L. Hutchinson, £1 1s. from Mr. J. Duggan, £1 11s. 6d. from Mr. M. J. Kieran, and 10s. 6d. from Mr. J. J. Roche.

On the motion of Mr. F. J. FITZPATRICK, treasurer, the following resolution was unanimously adopted: "That the best thanks of the Council of the Pharmaceutical Society of Ireland be returned to the Limerick Chemists' Association, and Messrs. J. J. Roche, L. Hutchinson, J. Duggan, and M. J. Kieran for their generous donations to the Benevolent Fund."

DEATHS

The Registrar reported on the deaths of Dr. S. O'Beirn, M.P.S.I.; E. J. O'Donnell, M.P.S.I.; Dr. J. McMichael, M.P.S.I.; and O. B. Arkle, M.P.S.I.

ELECTIONS AND NOMINATIONS

The following were elected to membership of the Society: Miss E. Daly, Messrs. Maurice Power, Joseph Matthew Gorry, P. Keogh. The following were nominated for membership: Messrs. R. L. Austin, J. F. Courtney, J. J. C. Maguire, Maam, co. Galway.

DIAMOND JUBILEE DINNER

In connection with the coming diamond jubilee dinner of the Society, to be held at the Gresham Hotel, Dublin, on January 9, MR. CAHILL, honorary secretary of the Dinner Committee, mentioned that it would facilitate the Committee very much if members attending the function, and those making up parties, would reserve seats as soon as possible.

At the conclusion of the business, THE PRESIDENT wished all the members of the Council present a happy Christmas.

THREE-PENNYWORTH.—Extracts from the annual report of the Ministry of Health for 1934-35, with an abstract of reports of public analysts, are published at 3d. by H.M. Stationery Office, Kingsway, London, W.C.

OFFICIAL LECTURES ON CHINESE ART.—It has been arranged for a number of the official lectures which are being given in connection with the Exhibition of Chinese Art at Burlington House, W.1, to be published in the "Journal of the Royal Society of Arts." Copies may be obtained from the Secretary, Royal Society of Arts, John Street, Adelphi, London, W.C.2, price 1s. each.

"HEALTH PRACTITIONERS' JOURNAL."—We have received a copy of the first number of the "Health Practitioners' Journal," published (price 6d.) at 37 Cursitor Street, London, E.C.4. Among the varied contents are articles by the president (Dr. Joseph S. Bridges), Mr. William Shadforth, Ph.C., Dr. C. S. Collen-Smith, Mr. C. A. Cooper and Captain Horace Barrow. The history of the Medical and Surgical Appliances (Advertisement) Bill is set forth, and the objects of the Health Practitioners' Association are vigorously expounded.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held on December 13 in the Society's offices, 73 University Street, Belfast, the president (Mr. W. S. Taylor) in the chair. There were present also Messrs. Samuel Gibson (vice-president), S. S. Badger, J. E. Connor, J. F. Grimes, R. I. Edwards, W. C. Tate, J. T. Nicholl, S. H. Forrest, W. Martin, J. McDowell, Professor Mayrs, Professor J. Small, and Sir Thomas McMullan. Apologies for absence were received from Messrs. J. Glendinning, H. F. Moore and C. Abernethy. Mr. D. L. Kirkpatrick (secretary) was in attendance.

THE PRESIDENT extended a cordial welcome to Professor Small on his return to the Council after his illness. He said they were delighted to have him with them once more. He was an institution at the Council.

PROFESSOR SMALL returned thanks for the welcome and for the sympathy of the members during his illness.

CORRESPONDENCE

Letters were read from Mrs. Harris and Mrs. Badger thanking the Council for their expression of sympathy on the death of Major G. A. Harris, D.S.O., permanent secretary to the Ministry of Home Affairs. Mr. Walter Magill wrote thanking the Council for their congratulations on his appointment as permanent secretary to the Ministry of Home Affairs. Mr. A. C. McBride, J.P. (Armagh), wrote thanking the Council for their resolution expressing appreciation of his services on the Council from which he has resigned.

A letter was read from the Society's legal advisers stating that in their opinion the Society might bring proceedings for an injunction to restrain any member from using the titles "M.P.S.," or "M.P.S.N.I." on his signs, labels, or stationery, when in fact that member had ceased by reason of non-payment of his subscription or otherwise to be a member of the Society. It was quite clear from the Regulations that the name of any member whose subscription was unpaid for a period of two years should be omitted from the list of members, and he would then automatically cease to be a member and would lose all the benefits of membership. When any member placed himself in that position he should be notified and given a final chance to pay up within a limited time, and if he failed to do so, his name should be struck off the list of members and formal notice to that effect sent to him.

THE SECRETARY stated that they carried out the procedure mentioned at the end of the letter. There were not many cases, but probably they would have some.

EXAMINATION RESULTS AND REPORTS

THE SECRETARY submitted the results of the December examinations. There were, he said, 17 passes in the preliminary scientific. Out of 55 who sat 19 were new and only one of them passed, and he was trained in the Technical School, Newry. Thirty-six referred candidates sat and 16 passed. Thirty-two out of 51 botany students failed, and thirty-two out of 47 failed in chemistry. In physics 20 out of 38 failed. In business methods four failed. For the Part II 38 candidates sat and 17 passed all told. Nineteen were referred, and there were two straight failures in pharmacy. There was only one straight failure in pharmacognosy. The worst feature was the number of new candidates in Part I going down in the science subjects.

It was agreed on the suggestion of Mr. CONNOR to write to Mr. Flynn, of the Newry School, congratulating him on the results from Newry.

The reports of the examiners were read as follows:—

Botany.—The general standard was very much as usual. An outstanding feature was the fact that, although most candidates attempted Question 4, only a very few had any idea of the modern interpretation of "suction pressure" which has been expounded in the books since 1930. Another point worth noting is that only two or three candidates seemed to know what was meant by a radial longitudinal section. In spite of these points there was, however, a pleasing increase in

the precision of the answers to the other questions where the subject-matter seemed to be better known to the candidates.

Pharmacognosy.—Although there was an absence of any really good papers, there was a distinctly better average both in the theory and in the practical. This should be clear from the low number of candidates who obtained less than pass marks in this subject, only 10 out of 38. There is still a general tendency in the practical to omit the adulterants and substitutes required in Question 2 and to treat the specimens in Question 3 as two distinct items instead of giving the characters which distinguish the one from the other.

Chemistry.—Final, Part I.—Theory: Of the candidates examined twenty-six scored fifty marks and upwards, and twenty failed to reach the pass mark. The majority of the failed candidates, however, obtained about forty-seven marks and should, with a little further study, reach the desired standard. Practical: The performance of the practical work was poor. Quantitative operations entailing the use of the burette, etc., were particularly bad. The qualitative work was more hopeful. Final, Part II.—Theory: The answering of the questions in organic chemistry showed a distinct improvement. Knowledge of the contents of the British Pharmacopœia is, however, still weak. Taking the theory questions as a whole, approximately 66 per cent. of the candidates reached a passable standard. Practical: Here, as in the Part I examination, the quantitative work was very poor. Some candidates seem to be incapable of making the simple calculations involved in volumetric work. The qualitative work was relatively well done.

Physics.—The average standard of answering in the theory paper was poor. Nevertheless, no individual question was answered badly by all candidates, and the questions were chosen fairly evenly from the whole paper, the electrical questions not being consistently avoided, as in some previous examinations. Most candidates illustrated their answers when necessary by quite well-chosen and well-drawn sketches and diagrams. Candidates' practical work was generally better than their theoretical work. Most candidates were able to perform the two experiments in the allotted time, and many obtained results of reasonable accuracy in one or both of the experiments. The principal faults noticed were:—(a) Some candidates were unable to read trigonometrical tables of sines, or to construct sines geometrically for given angles. Such knowledge is essential in any work on refraction of light. (b) The graphs made left a good deal to be desired in neatness and choice of scales. (c) Some candidates returned absurd values for density and/or refractive index. (In several instances these resulted from simple arithmetical errors.) In the oral examination such candidates rarely showed any appreciation of the fact that their answers were of a very wrong order of magnitude.

Pharmacy and Practical Pharmacy.—There were twenty-one candidates, ten being re-examinees. In several instances the answers to the written papers reached a high standard; the remainder, with some exceptions, coming up to a fair average. There still continues a tendency on the part of candidates to introduce irrelevant matter, and be much too prolix in their answering. This applies to both sections of the written papers. The practical work was of average quality, a few cases being outstanding in both neatness and accuracy. Untidiness and lack of attention to detail were, however, still noticeable, and an unfortunate feature was that some who had written excellent papers failed to reach the required standard in their dispensing work.

Business Methods.—Thirty-four candidates were examined in the subject of business methods, and the following is a summary:—Total possible marks 3,400, total obtained 2,011, percentage obtained 59.2. It was recommended that thirty candidates should be awarded a pass in the subject.

THE SECRETARY said that the reports of the examiners were sent to the teachers in the technical schools, and in reply to Mr. Badger, he said that Dr. Graham (chemistry) had authority to extend the time by half an hour if necessary.

THE PRESIDENT: Did the candidates know that?

THE SECRETARY: Dr. Graham knew, and I think most of the candidates.

MR. TATE said there was no oral examination in botany this time. Did that militate against the candidates?

PROFESSOR SMALL said the marks were available on the table. If there had been any advantage in the absence of an oral examination it was to raise the number who passed. Any candidate who did not get through in botany had marks well below fifty.

THE PRESIDENT said he did not think the botany candidates had anything to complain of.

PROFESSOR SMALL said it was not necessary to hold an oral for every candidate. It was necessary for candidates on the border line.

MR. McDOWELL said praise had been given to the country students. Did that mean that the city students were not so good?

THE PRESIDENT said it did not necessarily show that. There were not so many attractions in the country as in the city.

DR. ACHESON remarked that sometimes you find a smart boy in the country. (Laughter.)

THE PRESIDENT: The city is made up of smart boys from the country. (Laughter.)

ANNUAL LICENCE FEES

The Law Committee recommended the appointment of a deputation to see the Ministry of Home Affairs with a view to securing more protection for their profession, and also to secure a reduction in any annual licence fees paid to the Ministry.

MR. CONNOR moved the adoption of the recommendation.

MR. FORREST seconded.

THE PRESIDENT said the matter of a deputation to the Government was open for discussion.

MR. EDWARDS said a deputation from the Ulster Retail Drug Trade Association and the Council waited on the Ministry some time ago and were told they were waiting to see the result of the Poisons Bill in England. The matter was gone into thoroughly, attention being drawn to the manner in which hairdressers and others were taking their business. He did not think it was wise to go again, seeing the Ministry had promised to go into the matter once they had experience of the working of the English Act. The licence fee was fixed by the Act of Parliament. It was originally to be five guineas and was reduced to three guineas.

THE PRESIDENT, speaking as a member, said if the fees were done away with the expense of the Inspector would be thrown on the Society, and it would cost in travelling expenses and salary nearly £1,000. The Ministry might increase the fee, and they should "let sleeping dogs lie."

SIR THOMAS McMULLAN said it was with difficulty they got the five guineas reduced to three. If the matter were let alone it would be better.

DR. ACHESON said the Ministry refunded half of the fees to the Society.

MR. FORREST said that the motor licences were being reduced from January 1, and they might now seek to raise the pharmacy fee.

MR. McDOWELL said they would never get anything unless they asked for it. The members outside were crying out for some form of protection. If it could not be done he would move that the Council hand back part of the money to the members. He understood that could be done.

MR. CONNOR urged the need for protection in the country where the trade was being filched from them.

THE PRESIDENT said he was painfully aware of it, for he had experienced it.

MR. BADGER said one thing they could get protection on was on coding of prescriptions, and they could not get agreement on it except in the city of Derry.

THE PRESIDENT said if the Government gave them the English Bill they would be worse off than ever.

MR. TATE said they could not in any case get the reduction from January 1. They might refer the matter back to the Law Committee. He moved accordingly.

MR. CONNOR withdrew his motion in favour of Mr. Tate's, which was agreed to.

The Law Committee also reported that they had instructed the secretary to get legal opinion as to what action, if any, can be taken against members whose subscriptions lapsed in order to restrain them from using the titles M.P.S. or M.P.S.N.I. on their signs, labels, or stationery. They also

reported that it had been agreed that the vice-president, Mr. Abernethy, and Mr. McDowell see the solicitors and have them draw up an agreement between the Society and the secretary.

THE SECRETARY said the legal opinion had already been received and read.

The minutes were adopted.

OTHER BUSINESS

MR. McDOWELL mentioned the eligibility of nominated members for the vice-presidency. He had been bowled out by the legal opinion at the last meeting, but when he was at the solicitors' on other business he raised the matter and the solicitor said, "I am not prepared to say you are wrong."

THE PRESIDENT: Do you want counsel's opinion?

MR. McDOWELL: No.

MR. GRIMES said he regretted his absence at the last meeting when he would have been glad to have joined in the tributes to Mr. McBride. The Council would be much poorer for the loss of his services.

MR. CONNOR spoke in similar strain.

MR. CONNOR referred to a recent prosecution in Newry against a chemist in connection with the sale of methylated spirits. The words "must be known to the seller" were a difficulty. He would like to know what must be known to the chemist so as to conform with the Act.

THE PRESIDENT said the law was very drastic and he did not think the Council could give a ruling on it.

MR. CONNOR said it was not fair a chemist should be hauled up on a point of the kind. The person to whom the spirit was sold had been coming in and out of the shop for years, but the chemist did not know where he came from. The magistrates decided against the chemist. Chemists should be protected against these prosecutions. Was it sufficient to know a man by seeing him? The wording of the Act was too ambiguous.

THE PRESIDENT: You would have to go to the High Court to get a ruling. If a chemist was convicted he could fight the matter out there.

Items in Parliament

AMONG matters raised in the House of Commons recently have been the following:—

BRITISH INDUSTRIES FAIR

The Secretary to the Overseas Trade Department, in reply to an inquiry as to the number of applications received for space in the next (1936) British Industries Fair, stated: The number of applications for space in the forthcoming British Industries Fair which have been received to date is 2,170, for an area of 856,834 square feet.

Mr. Bellenger asked the total sum available from all sources for publicity for the British Industries Fair of 1936; and what part of this has been spent on advertising in British newspapers in the Dominions and Colonies.

Captain Euan Wallace (Secretary, Overseas Trade Department): The total sum . . . is £12,500. I regret that it has not been possible to allocate any portion of this sum for the purchase of advertising space in overseas newspapers circulating in Empire or Foreign countries. I would, however, point out that an elaborate publicity campaign is conducted in overseas countries by means of a direct appeal to known buyers, in a series of letters written in their own language, by a world-wide display of posters and other publicity material, and through the activities of the officers of the Commercial Diplomatic, Trade Commissioner, and Consular Services.

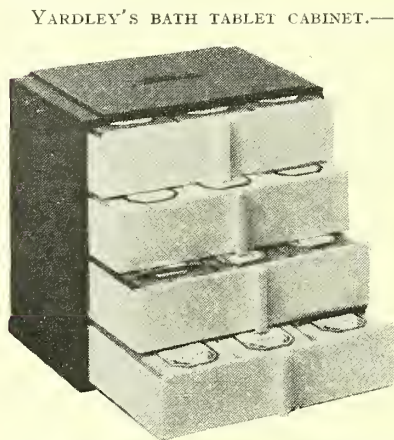
NATIONAL HEALTH INSURANCE

Mr. G. Griffiths asked the Minister of Health whether he was prepared to make arrangements for all diabetics who had run out of insurance benefit to be given insulin free without any means test.

Sir K. Wood: I have no power to make such arrangements, but . . . local authorities are empowered to provide insulin for persons . . . who are unable to purchase it out of their own resources.

Trade Notes

IODINE BODY BELTS.—The Bartlett Distributing Co., Ltd., Diamond House, 37 Hatton Garden, London, E.C.1, have been advertising their iodine belts at advantageous prices. There are three sizes issued, ladies, men and children, and they are supplied in assorted dozens. Stocks may be obtained from the usual wholesalers.



YARDLEY'S BATH TABLET CABINET.—Yardley & Co., Ltd., 40 Piccadilly, London, W.1, issue a handsome four-tier cabinet for bath salt cubes. The cabinet is of plastic material and each drawer, of which there are four, holds six tablets. This pack, in addition to being a useful method of holding the bath cubes, is an attractive fitment for the bathroom and it can be hung upon the wall or stood upon the shelf as desired.

WINTER PHOTOGRAPHY.—Ilford, Ltd., Ilford, have further augmented their list of photographic publications by a new booklet entitled "Winter Photography" and a brochure on Selo gaslight paper.

ENDOCRINES, LTD., Watford, Herts, draw attention to Guttae Adspersen, which is described as a new endocrine tonic and prophylactic. It is issued in phials of 25 c.c. and is a solution intended for oral administration to be sold on prescription only.

CALCIUM BOROGUONATE.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have introduced Wellcome Brand calcium gluconate for the treatment of milk fever in cows according to the method evolved by Dryerre and Greig ("Veterinary Record," April 20, 1935). The substance is issued in cartons each containing 2½ ounces and is intended for subcutaneous injection. A leaflet giving full particulars of the treatment will be forwarded by the makers on application.

TELERAZOR.—A new showcard has recently been introduced for the automatic Telerazor. This card measures 8 in. across by 12 in. deep. It is printed in four colours and should be a useful item of sales material in favour of this new razor, which is being extensively advertised.



CHRISTMAS HOLIDAYS.—In addition to those mentioned in last week's C. & D. (p. 714), the following wholesale houses have informed us of their special arrangements for the Christmas holidays: The London Rubber Co., Ltd., E.C.1, will be closed from Tuesday evening, December 24, to Monday morning, December 30; Wright, Layman & Umney, Ltd., London, S.E.1, will be closed on December 25 and 26, also for stocktaking on December 30

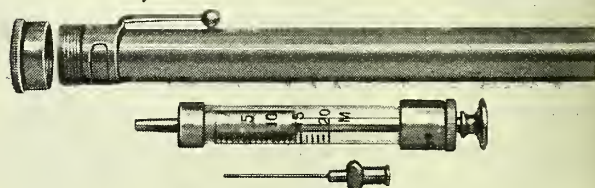
and 31; Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, will be closed from December 24 to 30; McClure, Young & Co., Ltd., London, N.W.10, will be closed on December 25 and 26 (a small staff will be in attendance on December 27 and 28). The offices of THE CHEMIST AND DRUGGIST will be closed on December 25 and 26.

LAXATIVE PREPARATIONS.—Continental Laboratories, Ltd., 30 Marsham Street, London, S.W.1, inform us that as from January 1 next their two laxative preparations taxol and lactobyl will be manufactured in this country. Sizes and prices remain unaltered.

INFORMATIVE LITERATURE.—A pamphlet on Salicin in relation to its uses in influenza, rheumatism and skin diseases has been issued on behalf of the three British manufacturers, who will supply samples and further literature on application. Their names are: J. F. Macfarlan & Co., 109 Abbeyhill, Edinburgh; T. & H. Smith, Ltd., Wheatfield Road, Edinburgh; and Whiffen & Sons, Ltd., Carnwath Road, Fulham, London, S.W.6.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have issued a 36-page booklet with cover on Acriflavine, its properties and uses. Numerous extracts from medical and other literature are included. The booklet also gives a brief historical survey of the subject and a comprehensive bibliography, together with a list of the Acriflavine products available.—An interesting booklet entitled "Are you a 'Cellophane' Fan?" has been published by British Cellophane, Ltd., 179 Tottenham Court Road, London, W.1. It is written in quite an entertaining manner and gives convincing reasons for the use of cellophane in wrapping all kinds of produce. A short account of the discovery of cellophane is included.

HEBDEN OF HALIFAX, manufacturing chemists, have issued a nicely illustrated brochure giving a history of the firm, which was established in 1833, and a statement of their policy which is exemplified by the slogan "Pharmacy First." An illustrated list of their specialities with prices and terms is included. Details of a scheme for the special advertising of their own and customers' goods may be obtained on application.

HYPODERMIC AND SERUM SYRINGES.—General Surgical Co., Ltd., Rosebery Avenue, London, E.C.1, are actual manufacturers of Original Record hypodermic and serum syringes, and special attention is directed in THE CHEMIST AND DRUGGIST YEAR BOOK, 1936, to the Fivepoint-Midget syringe, which is



issued in a spirit-proof case with needle, the size being 5 x 1½ in. It is fitted with a clip for carrying in the vest pocket, like a fountain pen. Full particulars are obtainable of discounts, etc., on application. A spring attached at the base of the holder releases the syringe when the cap is removed.

POST OFFICE LONDON DIRECTORY.—We have just received a copy of the Post Office London Directory for 1936 (Kelly's Directories, Ltd., 186 Strand, London, W.C.2; cloth 55s., leather 70s.). This valuable publication keeps pace with the growth of London, and in the current edition there has been added Tottenham—last year it added Willesden, and the Acton and Chiswick district the year before. One cannot help but realise from the additions to the Directory what a vast industrial area is growing up on the outer rim of London. In this publication, which is after all the real book of London, all the complexity of London traffic and London trade is organised, brought into categories and alphabetical arrangements. Among other information there are sections relating to "Official"; "Streets"; "Chemical"; "Law"; "Private Residents"; "Transport"; another which is headed "City, Municipal, Parochial and Clerical"; another for "Banking" and finally the "Professional and Trades" and the "Professional and Commercial." This is also a four-inch-to-the-mile plan in four sections, in a separate case.

Births

Notices for insertion in this column must be properly authenticated

BASTOW.—On December 12, Phyllis, the wife of S. William Bastow, Ph.C., 9 North Street, Chichester, of a son (Timothy John).

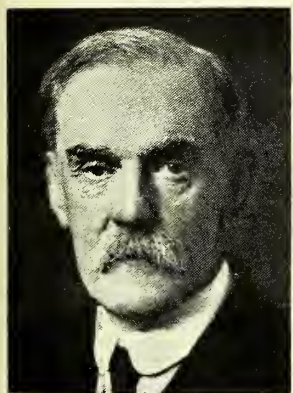
Marriages

PARRY—TUDOR.—At Rhydlydan Church, recently, Owen Parry, chemist and druggist, Portmadoc, to Gwennie Tudor.

Deaths

BUTTERFIELD.—On December 14, Mr. Fred Butterfield, 30 Ansdell Road North, Lytham, a member of the Dental Board of the United Kingdom, aged sixty-seven. Mr. Butterfield was a founder of the Incorporated Dental Society in 1892, and was appointed general secretary in the second year of the Society's existence, holding that position up to his death. He was registered under the Dentists Act, 1921.

GLAZEBROOK.—At Ballards Oak, Limpsfield Common, on December 15, Sir Richard Tetley Glazebrook, K.C.V.O., K.C.B., D.Sc., F.R.S., aged eighty-one. Sir Richard Glazebrook had a distinguished career as a physicist after successes at Cambridge University, where he graduated as fifth Wrangler. His most important work from a public point of view was his supervision of the National Physical Laboratory, Teddington, of which he was the first director. When he retired from this post in 1919 the scope of the institute, founded twenty-years earlier, had expanded to an extent hardly foreseen at the beginning. Sir Richard was the author of several text-books on physics, optics and mechanics; he wrote "Science and Industry" (1917) and edited the Dictionary of Applied Physics



Photo] [Press Portrait Bureau
SIR RICHARD GLAZEBROOK

(1922-23). Numerous public honours and academic distinctions were awarded to him.

GRIGNARD.—At Lyons, on December 13, Professor Victor Grignard, director of the French School of Industrial Chemistry, aged sixty-four. Professor Grignard, who received the Nobel prize for chemistry in 1912, is best known by the reaction named after him. Particulars of this are given in Thorpe's Dictionary of Applied Chemistry, Vol. III, p. 469.

JONES.—On December 5, Mr. Henry David Jones, chemist and druggist, Sycamore Street, Newcastle Emlyn. Mr. Jones qualified in 1891.

MACINTYRE.—At 763 Borough Road, Birkenhead, on December 14, Mr. James MacIntyre, M.P.S., 87 Grange Road, aged seventy-eight.

MITCHELL.—At the Royal Masonic Hospital, London, W.6, on December 10, Mr. Henry Searle Mitchell, chemist and druggist, aged sixty-three.

SUTCLIFFE.—At Southport, on December 8, Mr. William James Sutcliffe, chemist and druggist. Mr. Sutcliffe qualified in 1903.

Personalities

MR. EWART WOOLLEY (Cupal, Ltd., manufacturing chemists), Blackburn, has successfully contested a by-election to fill a vacancy on the local town council.

NOTICE is given in "The London Gazette" that Max Hurwitz, otherwise Max Abrams, 398 Great Cheetham Street East, Higher Broughton, Salford, general medical practitioner, has assumed the name of Maxwell Julius Maxwell by deed poll.

Business Changes

MR. F. H. WELLS, chemist and druggist, opened a new pharmacy at 6 The Broadway, Oakdale, Poole, Dorset, on December 13.

ASHFORD WEBB, LTD. (Phantom Safety Razor) are removing from 6 Crescent, Minorities, to Tower House, 40 Trinity Square, London, E.C.3, on December 21.

Wills

MR. RICHARD JOHNSON, The Croft, Pannal, Yorks, chemist and druggist, who died on September 4 last, aged seventy-six, left estate gross value £18,738, with net personality £14,284.

MR. WILLIAM ALFRED CLARK, 23 St. Mary Street, Southampton, Hants, chemist and druggist, who died October 7 last, aged seventy, left estate gross value £6,375, with net personality £6,355.

MR. FRANCIS CHARLES MATHEWS, The Bank Pharmacy, New Malden, chemist and druggist, who died on October 23 last, aged fifty-nine, left estate gross value £2,829, with net personality £2,543.

MR. LEONARD BOOKER THORNTON, 100 Landor Road, Stockwell, S.W., chemist and druggist, who died on September 23 last, aged seventy-five, left estate gross value £3,997, with net personality £2,263.

MR. EGBERT GRANT HOOPER, 16 Royal Avenue, Chelsea, S.W., formerly Deputy Chief Government Chemist, died on September 17 last, aged eighty, leaving property of the gross value of £37,550, with net personality £37,268.

MR. HENRY JOHN CHASE, 54 Tredegar Road, Portsmouth, Hants, chemist and druggist, formerly in business at 149 Albert Road, Southsea, died on October 14 last, leaving estate gross value £9,847, with net personality £7,123.

MR. GEORGE LEONARD AUSTIN, Thurston House, Rectory Grove, Clapham, S.W., late of Hounslow and Sheerness, chemist and druggist, who died on November 1 last, aged eighty-one, left estate gross value £4,966, with net personality £1,885.

MR. KENNETH SUTHERLAND MURRAY, Geanies Fearn, Ross-shire, and of 1 Eaton Avenue, S.W.3, honorary life governor of the British Oxygen Co., Ltd., who died on August 8, aged seventy-three, left personal estate in Great Britain valued at £36,047.

MR. HENRY JAMES GEORGE HOLLINGHURST, 1 Westbury Road, Ealing, W., chemical merchant, who died on July 11 last, aged seventy, left estate gross value £283,791, with net personality £280,683, on which £79,751 5s. 1d. has been paid in estate duty.

MR. THOMAS BURNS ALEXANDER, 59 Belmont Road, Southampton, formerly of 22 Ravensbourne Terrace, South Shields, Durham, chemist and druggist, who died on September 10 last, aged fifty-nine, left estate gross value £4,277, with net personality £3,973.

MR. CARL LANGER, Adbourne, Risch, Canton Zug, Switzerland, a pioneer of the British-Canadian nickel industry, and a founder-director of the Mond Nickel Co., died while on a cruise on board the liner "Homer" on March 3 last, and left property in England valued at £10,266.

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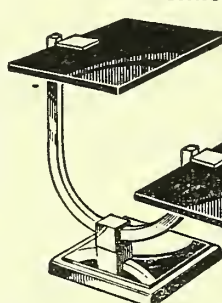
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PUBLISHED BY THE CHEMIST AND DRUGGIST

28 Essex Street, LONDON, W.C.2

Branch Offices: Manchester and Sheffield, England.
Glasgow, Scotland. Melbourne and Sydney, Australia. Auckland, New Zealand.

THE
CHEMIST AND DRUGGIST

VOL. CXXIII.

December 21, 1935

NO. 2915

"The Chemist and Druggist Diary and Year-Book," 1936

THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK, 1936, is now in process of distribution to our subscribers. To say that the publication of this much-appreciated annual is one of the events of the pharmaceutical year is by no means an exaggeration. It is now in its sixty-eighth year of publication and as an up-to-date guide to pharmacy in all its branches it is the outstanding publication of its kind. Year after year new features are incorporated, and the reference matter which such a book must invariably contain is brought entirely up to date. Each edition means research for new material which, in view of the many branches of pharmacy already covered, is not always easy to find. This year, however, the main subject for the Year-Book was obviously to be in the form of a guide to that complicated piece of legislation the Pharmacy and Poisons Act, 1933. It is a commonplace to say that this Act is difficult to understand. During the past year distinguished writers and speakers in various walks of life in connection with or closely allied to pharmacy have given their views in regard to the Act, and on this one point they all of them were agreed. It is no easy task to decide as to how best the Poison Rules and Regulations should be interpreted so as to be easily understandable by the harassed pharmacist in business who has little time to puzzle over official publications. It was obviously a suitable task for THE CHEMIST AND DRUGGIST to undertake, after long years of experience in assisting the chemist in conducting his business within the requirements of the many laws by which he is beset. In this connection, therefore, the "Pharmacist's Poisons List and Poisons Code Synopsis," which is the chief article in the 1936 Diary, will, we hope, be worthy of the high standard set in previous issues. Since the year 1936 commences an era of poisons control in which the pharmacist is the only retailer entitled to supply each and every poison, it is of very great importance that the chemist in business should be particularly familiar with the legal processes surrounding the sale of poisons generally. At first glance the list may seem a formidable one, but, on the contrary, after an examination of the introductory pages it will be found that in use the C. & D. Guide to the Poisons List is simplicity itself. Each entry is complete, that is to say, it supplies all the essential data, even to the labelling requirements. The Poisons List itself contains upwards of 2,000 poisonous substances, together with indications as to how they are classified and how they should be labelled. In this article it is perhaps unnecessary to do more than strongly suggest to every pharmacist that he should carefully study the information given. The present position is that the Poisons List as it stands has not yet been finally approved, but any modifications will be announced in the columns of THE CHEMIST AND DRUGGIST and pharmacists will be asked to make the necessary alterations in their copy. We understand that the Poisons List and Rules, as approved, will be published on January 1. The List and Rules come into force on May 1, 1936, and there will be thus time for pharmacists to become

acquainted with what we hope will be numbered among the many valuable contributions to the business of pharmacy made by THE CHEMIST AND DRUGGIST in its long lifetime.

It was decided that as the legal side of pharmacy was so predominant this year, the rest of the Year-Book should deal with other legal problems. In consequence, the 1936 Diary may be described as a guide to important legal information relating to everyday trading. Another interesting new feature is the article on page 281, entitled "The Chemist and his Assistant." The information there given will be found invaluable to both employer and employee. Authentic statistics as to the revenue from patent-medicine stamps during the years 1800 to 1934 are given on page 286, and the decline in revenue from the peak years, 1929 to 1932, is a significant pointer to the effect of destamping. The extent of import duties has been considerably enlarged. For easy reference a chart showing the details of the chemist's agreement and his relationship with bodies concerned with the provision of medical benefit under the National Health Insurance Acts appears on page 305.

The Trade Directory and Buyers' Guide is the most complete directory of actual sellers in the entire drug trade. This section has again and again been found of inestimable value to buyers and, of course, to manufacturers and sellers in all parts of the world. The advertisement pages are a tribute to the value to the chemist of *The Chemist and Druggist Year-Book* as an advertising medium. Like THE CHEMIST AND DRUGGIST itself, the Year-Book is a publication which is read, filed for reference, and used all through the year. This is an elementary fact which is well known to buyers, manufacturers and sellers, but it cannot be too often emphasised that when a publication is paid for, it is recognised as alive, to be read and re-read by responsible persons in every firm of whatever size or type and in every branch of the drug trade. Since the Year-Book went to press certain corrections have become necessary. At the annual meeting of the General Council of Panel Chemists (Scotland), new members of the Pharmaceutical Standing Committee were elected. The members' names given below replace those given in the Year-Book on page 307:—Hugh S. Culbert, Dumfries; H. P. Arthur, Glasgow; David Harley, Musselburgh; W. F. Hay, Aberdeen; S. McConnell, Johnstone; M. Meldrum, Ayr; J. R. Milne, Dundee; J. B. Mitchell, Edinburgh; Peter Nisbet, Edinburgh; A. W. Ritchie, Montrose; Charles Stewart, Kirkcaldy; G. McV. Abercromby, Corstorphine; John Boyd, Edinburgh. The officers have been re-elected. And, during the same period, the following changes in associations have taken place:—The newly elected secretary of the Bath and District Branch of the Pharmaceutical Society is Mr. E. C. Haskins. The new president of the London County Pharmaceutical Association (page 311) is Mr. J. A. Thompson.

How the Money Goes

IN the CHEMIST AND DRUGGIST, November 9, p. 567, the plea was put forward that chemists should be paid in full. In this connection we note with interest a writer in a recent issue of "The British Medical Journal" comments on the cost of medicines. He recalls the early days of National Health Insurance when there was a so-called device described as the "floating sixpence" when the doctor had a direct share in the cost of drugs. When these days were over and the doctors ceased to have any such share, the

chemists' accounts were paid in full. The writer goes on to discuss the question of discounting of chemists' accounts. He states that "it is a system the reasonableness of which ordinary business men may find it difficult to understand in view of the fact that the chemists have no control over the extent of the demands made on their stocks or on their services." We add that it is a system which there would have been not the least likelihood of imposing on any other class of trader in the country. The basis on which payment is made to chemists is of course known to the majority of chemists dispensing under the National Health Insurance medical service. There are some, however, who do not understand the system, and it is perhaps an opportune moment briefly to describe the method of payment, especially as terms of service for chemists were recently approved (*C. & D.*, Nov. 9, p. 572). The drug fund, which is now known as the chemists' fund, is only one section of a larger pool set aside to defray the cost of all medical benefit service. The provisions of the N.H.I. Acts are administered by insurance committees in all local areas, who arrange with doctors to prescribe and chemists to supply medicines. The money necessary for the carrying on of this work is provided by Section 83 of the National Health Insurance (Cost of Medical Service) Act, 1924, as amended by a shorter Act of 1926. Briefly, this section provides that out of the funds available to meet the cost of benefits a sum of money (at such yearly rate as may be prescribed) shall be applied to meet the cost of medical benefit. This sum is not to exceed 13s. per annum for each insured person entitled to medical benefit. Of this total sum administration expenses of insurance committees (locally) and any expenses incurred by the Minister of Health (centrally) are charged, the insurance committee expenses being limited to 6d. and the Ministry expenses to 3d. for each insured person. This is the basis on which these funds are calculated, but the Medical Benefit Regulations made under the Acts give the scheme in greater detail. These Regulations provide that certain portions of the sums available shall be allotted to the following specific purposes:—

- (1) Practitioners' Central Fund, for the cost of treatment provided by doctors; for this payment 9s. is set aside.
- (2) Chemists' Central Fund, for the cost of drugs and appliances supplied by chemists; for this payment 2s. 11d. is set aside.
- (3) Insurance Committees' Administration Funds, for the administration expenses of these committees; the sum of 6d. is earmarked for this purpose.
- (4) Central Mileage Fund, for payments to doctors for any special factors affecting the provision of treatment in rural areas; 4½d. is set aside.
- (5) Central Administration Fund, for expenses incurred by the Ministry of Health; 3d. set aside.

It will be noticed that these sums amount to 13s. 0½d. Among other necessary expenses may be included the cost of keeping a central index of all insured persons. This index is for the assistance of insurance committees, who on their part keep their own index in the case of transfers of insured persons from one area to another or for any other purpose. The rigidity of the system is indicated by the requirement that no surplus in the different funds may come into being. On paper, therefore, the chemist is 1¼d. per insured person better off, the previous rate being 2s. 9¾d.; but if the cost of drugs and appliances increases at the same cumulative rate in the future as it has done in the past the 2s. 11d. is just as likely to be discounted as the lower sum. We have already referred

to "The British Medical Journal" comment on what is obviously a Laputan method of reasoning. It is surely time that strong measures were adopted to bring payment for chemists into the realm of everyday finance.

Buoyant Trade Returns

THE trade figures for November show a further slight increase on the returns for former months. The value of our international trade for January–November this year is well in advance of that for the same period of 1933 or 1934, as follows:—

All Classes of Merchandise	Imports	U.K. Goods, Exports	Total Exports, including Re-exports
	£	£	£
November, 1935	71,455,483	39,399,994	43,971,946
" 1934	64,656,806	36,125,264	40,133,554
" 1933	63,729,334	34,434,969	38,054,119
January–November, 1935...	683,571,272	391,037,481	440,858,556
" 1934...	669,515,185	361,873,515	409,559,317
" 1933...	612,851,465	337,012,335	382,096,315

The returns for the group designated Chemicals, Drugs, Dyes and Colours, also show further expansion, the value of the exports being nearly double that of imports, as follows:—

Chemicals, Drugs, Dyes and Colours	November			January–November		
	1933	1934	1935	1933	1934	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Imports	1,009	902	1,076	9,066	10,400	10,860
Exports of U.K. goods	1,794	1,779	1,869	17,087	18,060	18,707
Re-exports	38	41	44	1,127	776	516

If the steady improvement recorded during the second half of the year is maintained during the closing month, the aggregates of values of imports and exports of U.K. goods will show a substantial improvement on the relative figures for 1933 and 1934. Only in the case of re-exports is there a decline this year compared with recent years, but this slight loss is more than balanced by the substantial increase in our exports.

Ascorbic Acid in Hæmorrhagic Conditions

IN "The Lancet" of December 7 (p. 1285) Dr. H. Engelkes discusses the use of ascorbic acid (vitamin C) in certain hæmorrhagic disorders. The first communication to the medical world on this subject was apparently that of Stepp at the Wiesbaden Congress of Internal Medicine in 1934. His co-workers, Böger and Schröder, had observed that in such disorders the amount of plasma protein is decreased, the decrease being greater in the albumin than the globulin. When ascorbic acid was injected the findings were reversed, and this led them to give ascorbic acid to a patient with hæmaturia, with the result that it disappeared at once. The same favourable effect was seen in the case of Henoch's purpura. Stepp also pointed out that the oral administration of the vitamin does not help in all cases. Böger and Schröder subsequently reported fresh discoveries. They succeeded in stopping alarming intestinal hæmorrhages in a patient with hæmophilia; and in a case of essential thrombopenia, two days after injections began, they saw the skin and mucous membrane hæmorrhages stop, the urine being free from blood another two days later. Dr. Engelkes gives further details of success in treating hæmorrhagic conditions by this means. His monograph concludes with the observation that where the hæmorrhage is venous or arterial he would not attempt to treat it with ascorbic acid.



An After-Christmas Window

A Suggested Display of Digestive and Liver Remedies
as arranged in THE CHEMIST AND DRUGGIST Model Window

GIFT buying once finished, it is good business to return to normal without delay. A display of digestive and liver remedies offers one of the best methods to adopt to this end. It meets an immediate need, and it is eminently pharmaceutical. In the display illustrated, the plan has been to lead up from the raw materials, through the simpler remedies, to the more elaborate manufactured preparations. In the foreground, upon glass circles and ovals, were placed selected specimens of rhubarb, ginger, capsicum, gentian, etc. The method is effective, but requires rather more care than the use of glass dishes if a neat and clean display is to be achieved. Glass discs were chosen in this case as being more generally available in most pharmacies for a speedily organised display. For the same reason a formation of stands and shelves was adopted which could, with very little modification, be adapted to the shelf and "upright" arrangement normal to many pharmacies. The small heaps of whole drugs were backed by powders such as bismuth carbonate and sodium bicarbonate in original containers, and by oil of peppermint in its bulk bottle. Cartons of herbs and stomach tablets; drums of pills; and tins of herbal coffee were placed close to the materia medica. Behind and ascending in pyramidal formation were the branded mixtures, powders, lozenges, mineral waters, and so forth. One object of the window is to convey the importance of the subject of digestive disorders and the extent to which different aspects are catered for by reputable remedies. It is for the customer to seek the advice of the pharmacist as to

the most suitable for his own trouble. It will be realised that, while we have included a representative display, the majority of chemists will be able to build up a very similar arrangement from branded goods and drugs already in stock, thus avoiding delay at a time when a change of window must be quickly made. Whole drugs in the display were supplied by Potter & Clarke, Ltd., London, and Stafford Allen & Sons, Ltd., London; pharmaceutical chemicals by Howards & Sons, Ltd., Ilford; unbranded chemists' lines by Arthur H. Cox & Co., Ltd., Brighton, Meggeson & Co., Ltd., London, Potter & Clarke, Ltd., and A. L. Simpkin & Co., Ltd., Sheffield. Branded preparations included Andrew's Liver Salts (Scott & Turner, Ltd., Newcastle); Bisodol (Bisodol, Ltd., London); Bisurated Magnesia and Limestone Phosphates (International Chemical Co., Ltd.); Bojeston (Invicta Proprietaries, Ltd., Newcastle-on-Tyne); Lingford's Iodized Liver Saline (Lingford & Co., Ltd., Bishop Auckland); Maclean Brand Stomach Powder (Macleans, Ltd., Brentford); Meggeson's Bismuth Dyspepsia Tablets and Liver Saline (Meggeson & Co., Ltd.); Moorland Brand Tablets (W. B. Cartwright & Co., Ltd., Rawdon, Leeds); Normo-Gastrine Tablets (Burgoyne, Burbridges & Co., Ltd., Barking); Peptet Tablets (The British Drug Houses, Ltd., London); Vichy Hôpital and Vichy Pastilles (Ingram & Royle, Ltd., London).

Cubes and display stands were supplied by Clements, Newling & Co., Ltd., 96 Wood Street, London, E.C.2.

Chemical Nature of Vitamins

By E. G. V. Percival, B.Sc., Ph.D., A.I.C.

An abstract of an address given before the North British Branch of the Pharmaceutical Society on December 13

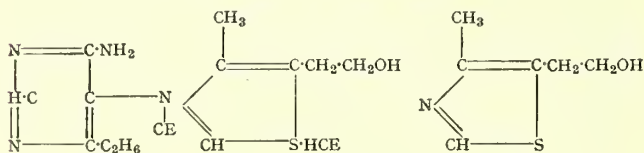
As the result of investigations extending over many years it is now definitely established that vitamin A is related to a hydrocarbon, carotene, $C_{40}H_{56}$, a widely distributed plant pigment of the class known as carotenoids. There are four isomeric carotenes known, all of which appear to give rise to the vitamin in the liver. Carotene itself when fed to animals shows vitamin A activity, but it is not the true vitamin. The vitamin itself has been obtained as an oil probably of the composition $C_{20}H_{30}O$, a synthesised compound described as perhydro-vitamin A is reported to be identical with the fully hydrogenated vitamin, but the vitamin itself has not been synthesised.

VITAMIN D

Vitamin D has been prepared in a chemically pure crystalline form called calciferol, 5 mgm. of which is equivalent to about 1 litre of cod-liver oil. However, the identity of calciferol with the vitamin present in cod-liver oil has not yet been rigorously proved, and more than one antirachitic vitamin may exist. For some years it has been known that vitamin D could be formed by submitting ergosterol, which occurs in small amounts in most living tissues and in many natural foods, and is a compound of a class known as sterols, to ultra-violet irradiation. In 1931 workers in Germany, Holland and England almost simultaneously announced the isolation of the pure vitamin in the form of long white crystalline needles, m.p. $115-117^\circ$, which were dextro-rotatory and exhibited in aqueous solution an intense absorption band with a maximum light absorption at $\lambda = 265 \text{ m}\mu$. Its antirachitic potency is of the order of 40,500 international units per mgm., in other words 0.0001 mgm. per day will protect rats from rickets. It is important to notice that the shorter wavelengths of ultra-violet light destroy this vitamin, a fact to be remembered when producing it by irradiation methods. The greatest yield is obtained when ergosterol is irradiated with ultra-violet light of 260-300 $\text{m}\mu$.

VITAMIN B

The old water-soluble vitamin B has since 1926 been shown to be a mixture of at least six distinct factors: $B_1, B_2, \dots, B_6$. The only two which are at all well established are B_1 and B_2 . Vitamin B_1 is present chiefly in the cortical parts of cereal and also in yeast. The largest yields are obtained from rice polishings. Quite recently part of its chemical constitution has been established largely as the result of the work of R. R. Williams, working at Columbia University, New York, who proposed a binuclear formula in January of this year.



Vitamin B_1 4-Methyl 5-β-hydroxy-ethyl thiazole

The 4-methyl 5-β-hydroxy-ethyl thiazole portion has now been synthesised by Clarke and Gürin, and it exists in the vitamin as a quaternary salt associated with a 6-amino-4-ethyl pyrimidine. The complete synthesis is not yet reported, but the structure appears to be fairly well established. Vitamin B_2 , formerly considered to be the pellagra preventing vitamin, is obtained chiefly from yeast and milk. It is suggested that it is identical with lactoflavin, a yellow water soluble dye, which is a derivative of alloxazine. Since many flavins are known, the question at once arises whether the vitamin is a single naturally occurring flavin or whether the flavins are precursors of the actual vitamin in the way that carotene is to vitamin A. The flavin content of various tissues parallels its vitamin B activity and lactoflavin retains its activity after repeated and varied purifications. Tetra-acetyl lactoflavin also shows

activity, which is retained on hydrolysis of the acetyl groups. Synthetic lactoflavin 15 mgm. per day produces a growth of 9-10 gm. a week in 40 gm. rats fed on a B_2 deficient diet. The vitamin itself may be a complex of a flavin with protein, such compounds retaining their vitamin B_2 potency. It must be noted, however, that flavins have no effect on pellagra, but only affect growth. Preparations formerly described as vitamin B_2 are now believed to contain two active principles, one promoting growth and the other an anti-pellagra factor. B_2 is suggested for the pellagra vitamin.

VITAMIN C (ASCORBIC ACID)

This substance was first isolated from the adrenal cortex of the ox, a work of immense labour owing to the large quantities of starting material involved. The compound, too, was unstable, particularly in alkaline solution. However, the crystalline compound was found to have a molecular weight of 178, analysis gave $C_6H_8O_6$, the substance was optically active (α)D + 24° with no mutarotation, and gave positive reactions with carbohydrate reagents. Because of its acidic properties it was named hexuronic acid, but this was changed later to ascorbic acid to indicate its antiscorbutic and acid properties. In 1932 it was pointed out that the distribution in nature corresponded closely to that of vitamin C, and in the same year experiments were carried out in Hungary which seemed to confirm the view that the so-called hexuronic acid was closely connected with the vitamin. By this time, however, there had been found another prolific source of the compound in the green paprika or Hungarian pepper. Ascorbic acid is a strong acid in so far as it affects indicators, decomposes carbonates and so on. It titrates sharply and apparently forms salts of the normal type with sodium, calcium and potassium as well as with alkaloids. However, when one molecule is titrated with iodine, taking up two atoms and liberating two molecules of hydriodic acid (estimated by precipitation as silver iodide) neutralisation with standard alkali proceeds in a strange manner. Two equivalents are taken up at once, due to the neutralisation of the two molecules of hydriodic acid; the third equivalent which must be taken up by the supposed COOH group is only slowly absorbed, the phenolphthalein goes pink with a few drops of standard sodium hydroxide and the colour fades slowly. The titration is precisely the same as for a lactone. Obviously in some way iodine oxidation has destroyed the relatively strong acidic properties of ascorbic acid and caused it to behave as a lactone. The original acidity therefore could not be due to an ordinary carboxyl group, since that would be unaffected by iodine oxidation, but must be due to an activated hydroxyl group $-C(OH)=C(OH)-$. X-ray analysis showed that ascorbic acid was made up of a unit cell of extremely small dimensions as far as thickness is concerned and that the carbon and oxygen atoms with one exception must lie in a plane, in fact that ascorbic acid has a very flat molecule, flatter than any carbohydrate so far examined by x-rays. The starting point in the synthetic preparation was the previously unknown l-xylosone. This was prepared in the following manner from d-galactose: d-galactose $\rightarrow$ diacetone galactose $\rightarrow$ d-galacturonic acid $\rightarrow$ l-galactonolactone $\rightarrow$ l-lyxosazone $\rightarrow$ l-xylosone. This was converted into the cyanohydrin, which almost at once underwent hydrolysis to give the corresponding keto-acid, which on treatment with dilute hydrochloric acid was transformed quantitatively into l-ascorbic acid. The l-ascorbic acid so prepared was identical in all its physical and chemical properties with the natural vitamin, and indeed biological assay showed it to be even slightly more potent in anti-scorbutic activity.

In larger quantities l-ascorbic acid may be prepared from d-glucose: d-glucose is reduced by catalytic hydrogen to d-sorbitol, which is converted into l-sorbose by the action of the oxidising organism *Bacterium xylinum*. On carefully controlled oxidation with nitric acid 2-keto-l-gulonic acid is obtained. The latter is not isolated but is esterified by heating with methyl alcohol, and on subsequent treatment with sodium

methyrate the ester yields the sodium salt of ascorbic acid. This process is a rapid and cheap means of production.

VOTE OF THANKS

DR. BLACKIE, in moving a vote of thanks, said Dr. Percival had not only given them the interesting story of the synthesis and chemical constitution of ascorbic acid but had also given a very clear survey of all the important vitamins known at the present time. As Dr. Percival had remarked, it was desirable that they as pharmacists should have some knowledge of these substances which they were called upon to handle. They might not be able to follow in detail all the complicated formulas which they had seen upon the screen, but Dr. Percival had given them very clearly some most valuable information. Quite evidently Dr. Percival was a master of his subject and had gone through the exposition as if it were a very simple chemical problem. Happening to be doing some research work recently he came across an acid having the formula $C_{12}H_{14}O_6$. On looking up references he came across tetramethyl ascorbic acid which had the same formula, and ever since then he had been much interested in ascorbic acid, and he had listened with keen appreciation to Dr. Percival's address.

MR. HARLEY, in seconding the vote of thanks, said some years ago Professor Clark gave them an address in which he concluded with the recommendation that vitamins should be obtained from the greengrocer rather than from the pharmacist. Much work had been done since that time and considerable advances had been made. That work dealt largely with food values, and they had bodies like the British Medical Association and the Ministry of Health setting up committees for the standardisation of nutrition and making a national asset of food values. The address they had just listened to showed the value of such work, and quite probably the next matter they would have to consider would be whether the many preparations put on the market containing vitamins were to be classed as medicines or foods. No pharmacist could afford to be ignorant of this branch of research, which was of growing importance.

THE CHAIRMAN, in conveying the vote of thanks to Dr. Percival, said one thing had struck him. While they were making great advances in chemical knowledge he had an impression that even their grandmothers had recognised the value of vitamins in their preference for milk that was yellow, and they would not accept anything else. He remembered as a schoolboy hearing a lecture on domestic economy in which the schoolmaster remarked that carrots were not a suitable article of food because they contained a poison, but added that when that poison was taken in small doses it was very valuable to the human system.

Cascara Adulteration

By Mr. H. W. Blair, M.P.S.

An abstract of a communication to the North British Branch of the Pharmaceutical Society

THE purchase of cascara was done by sample, quotation and specification, and the consignment in question was guaranteed to be a very fine specimen of five-year-old bark. The sampling and examination of the bulk brought to light a very curious, stupid and obvious adulteration. Intermixed with the bales were found large, smooth stones and inside each package a bag containing chips of a species of wood entirely foreign to cascara. The wood proved to consist wholly of portions of the wood of *Pseudotsuga Douglasii*, the false Douglas Fir, which is one of the native conifers of the Pacific Coast of America. The brokers, a firm of high reputation, on being communicated with, replied that it was obviously a case of deliberate adulteration, all the more curious because deliveries had been made to several purchasers from the same shipload and none of these had made any complaint. Correspondence with the shippers, who had the entire confidence of the brokers, led to the conclusion that the adulteration was the work of some native worker desirous of making up his daily tally, and it was added that everything possible would be done to prevent peelers adulterating the bark in this way in future. The adulteration formed about 2.5 per cent. of the entire bulk of the consignment.

Indian Chemical Trade

THE report of the Senior Trade Commissioner in India for the period April 1 to September 30, 1935, contains the following information on drugs, medicines, industrial chemicals, etc.

Drugs and Medicines

The total volume of this trade showed a slight increase during the period under review as compared with the corresponding period of the preceding year, from Rs. 90.2 lakhs to Rs. 92.5 lakhs. Details of the countries of origin are not available in respect of all the commodities included under this heading, but the chief imports for the first six months of the two years in question were as follows:—

	1934 Rs. (lakhs)	1935 Rs. (lakhs)
Camphor	9.8	8.9
Proprietary and patent medicines	15.6	28.0
Quinine salts	15.6	12.1
Saccharin	1.6	1.8

Of particular interest is the very large increase in the import of proprietary and patent medicines, which are nearly double the level reached in the first six months of 1934-35. The advance was shared by all the supplying countries, but Germany secured the largest proportion. Arrivals from the United Kingdom advanced from Rs. 8.1 lakhs to Rs. 10.7 lakhs, from Germany from Rs. 2.9 lakhs to Rs. 8.1 lakhs, and from the United States of America from Rs. 2.1 lakhs to Rs. 5.5 lakhs. Arrivals from "other countries" also rose from Rs. 2.5 lakhs to Rs. 3.8 lakhs.

The imports of industrial chemicals showed a decline during the period under review as compared with the corresponding period of 1934 from Rs. 144.8 lakhs to Rs. 135.6 lakhs. The categories mainly affected by this fall were sodium carbonate, shipments of which declined from Rs. 34.1 lakhs to Rs. 27.6 lakhs, and caustic soda, which fell from Rs. 22.6 lakhs to Rs. 18.2 lakhs.

Soaps

Due to increased local production there was a very heavy fall in the total of this trade, imports being reduced by more than 50 per cent. The total imports declined from 144,875 cwt., valued at Rs. 41.4 lakhs, to 31,326 cwt., valued at Rs. 18.2 lakhs. Practically the whole of this reduction fell on the United Kingdom suppliers, who obtain the great bulk of the trade. Shipments from the United Kingdom fell from 126,706 cwt., valued at Rs. 36 lakhs, to 23,031 cwt., valued at Rs. 15 lakhs. In the period under review, the reduction was mainly due to smaller arrivals of household and laundry soap, although imports of toilet soap also registered a small decline. The shipments of household and laundry soap were reduced from 117,108 cwt., valued at Rs. 23.3 lakhs to 6,665 cwt., valued at Rs. 1.6 lakhs, whilst the arrivals of toilet soap fell from 25,501 cwt., valued at Rs. 17.4 lakhs to 21,777 cwt., valued at Rs. 15.7 lakhs.

New Books

Freundlich, H.—*The Chemistry of Rubber*. 6½ in. by 4¼ in. Pp. 72. 2s. 6d. Methuen & Co., Ltd., 36 Essex Street, London, W.C.2. [A brief summary of what is known about rubber on the chemical side. Latex, mastication and vulcanisation are among the subjects dealt with.]

Wilson, A. P. H.—*Precipitated Chalk: History, Manufacture and Standardisation*. 6 in. by 9 in. Pp. 62. John & E. Sturge, Ltd., 1 Wheelleys Road, Birmingham. [Commencing with a geological and historical survey of precipitated chalk, details are given of the uses of this material, how it is tested for the determination of physical properties, density, flowpoint, settlement and chemical purity. There are twenty-four microphotographic illustrations, which in themselves indicate the high degree of standardisation and purity which has been reached under the modern conditions of manufacture employed by Messrs. Sturge. This publication will be of interest and value to all users of precipitated chalk.]

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 19

WITH the approach of the holidays and the close of the year, business in most markets has been gradually slackening down. The general tone, however, is keeping quite steady, and a sound feature of many shipment markets is the strong tone of the forward positions. We give in brackets this week in our reports on CRUDE DRUGS AND ESSENTIAL OILS the prices quoted at the beginning of the year, from which it will be seen that the values of a number of these products have undergone substantial change. Business this week in PHARMACEUTICAL CHEMICALS has been subdued, with no change of importance in values to record. Competition in some of the imported products is very keen, with offers well under the controlled prices.

Crude Drugs

A fair inquiry continues for some commodities and the general tone keeps steady with a number of very strong markets. New crop AGAR for shipment is moving to easier terms. ALOES, on a very restricted spot and forward supply, remain firm at high figures. BUCHU is maintained at recent figures and no new crop offers are being made. Supplies of CASCARA SAGRADA are limited on spot and particularly at the source; values are fully maintained. DESICCATED COCONUT is firmer following the recent slight decline. DANDELION ROOT, British and foreign, is short in supply and dear. Quoted prices for ERGOT are gradually easing, but buyers are not interested in the present high figures. GUM ACACIA is dull and easier. MATTO GROSSO IPECACUANHA is very scarce on spot and dear forward. MENTHOL shows no change on the week; business modest. PIMENTO is a firm market at high figures. Values for RHUBARB continue firm and dear on spot, with a very poor selection available. TRAGACANTH is steady with druggists' qualities in fair demand. In the WAX markets BEES' has met with more inquiry.

Essential Oils

Business has been moving slowly and in most instances has been of small importance. Values are being maintained fairly steadily, and a few items continue firm. ANISE (STAR) is steady on spot; no shipment offers. BERGAMOT and other SICILIAN oils are about level on the week, but business has been quiet. CANANGA is unsteady, tending easier. Madagascar CLOVE is in limited supply on spot. The source indicates a firmer tone in Australian EUCALYPTUS. Business in French LAVENDER is very poor and the market is unsteady at lower values. Except for the CALIFORNIAN product, there seems to be a very limited supply of sweet ORANGE on spot. Singapore PATCHOULI continues very firm and is again held for much higher prices; supplies are difficult to locate. Japanese PEPPERMINT is about steady on spot and in modest demand; shipment market dull. SPIKE has been dull for some time and is rather easier.

Drug Auctions for 1936

DRUG AUCTIONS will be held at the Commercial Sale Rooms, Mincing Lane, London, E.C.3, on the following dates in 1936:—January 30; March 26; May 28; July 23; September 24; November 26.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	December 19	Value of the £
Amsterdam	Fl. to £	12.107	7.26½	12/0
Berlin	Mks. to £	20.43	12.24½	11/11½
Brussels	Belgas to £	nominal	29.13	16/8½
Copenhagen	Kr. to £	18.159	22.40	24/8
Lisbon	Esc. to £	110	109½	19/11½
Madrid	Ptas. to £	25.22½	35½	28/4½
Milan	Lire to £	nominal	nominal	nominal
Montreal	Dol. to £	4.86½	4.97½	30/5½
New York	Dol. to £	nominal	4.92½	30/3
Oslo	Kr. to £	18.159	19.90½	21/11
Paris	Fr. to £	124.21	74½	11/11½
Prague	Kr. to £	164.25	118½	21/4
Stockholm	Kr. to £	18.159	19.39½	11/11½
Warsaw	Zloty to £	43.38	26	12/0
Zurich	Fr. to £	25.2115	15.15	

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

WHILE the markets are keeping steady business has been on a limited scale. Salicylates have been in quieter demand of late. Mercurials and Iodides continue firm.

ACETANILIDE.—Market steady, business quiet; B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

ACETIC ACID.—From January 1 prices will be as follows: 80 per cent. technical, £33 5s.; 80 per cent. pure, £35 5s., in barrels; glacial, pharmaceutical, £58, in glass demijohns; glacial, in barrels, £42 per ton, delivered free in the United Kingdom.

AMIDOPYRINE.—Small spot business, with some keen prices quoted: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Market is quiet, quoted unchanged: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices of the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000, and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Keen prices being quoted on spot, market dull: spot, one cwt., 15s. 3½d.; 50 lb., 15s. 8d.; small parcels, up to 16s. 2d. per lb.

BENZOIC ACID (B.P.).—Fair business, market steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 2d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices for these salts are fully steady: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb.

BORIC ACID (B.P.).—Makers' prices for home trade steady at recent advance: crystals, £36; powder, £37 per ton, delivered. Higher prices for smaller quantities.

BROMIDES.—Market keeps very steady, business average: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P. crystals, and granular, not less than 5 cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10s.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Values maintained, market quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 50 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 50 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 50 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 50 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Keen competition for a limited business: spot, one cwt., 1s. 0½d.; 50 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CARBOLIC ACID (B.P. CRYSTALS).—The scale of prices is as follows: Twenty tons, 7d.; ten tons, 7½d.; one ton, 7½d.; less than one ton, 7½d. per lb., in drums, carriage paid. Wholesale distributors' prices for small parcels will be dearer.

CHLORAL HYDRATE.—Makers' prices fully steady: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars one penny per lb. extra.

CHLOROFORM.—Makers' prices are as follows: two cwt., 2s. 5½d.; one cwt., 2s. 6d.; 50 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ½d. per lb. less. Small bottles extra, from 5d. per lb., for ½-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Market continues firm: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz.

and less than 15 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; $\frac{1}{2}$ oz. and less than 1 oz., 37s. 11d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; $\frac{1}{2}$ oz. and less than 1 oz., 40s. 8d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. These scales of prices do not apply to export business, particulars of which may be obtained from the usual sources of supply.

CREAM OF TARTAR.—Steady, with fair business passing: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GUAIACOL CARBONATE.—Market is dull; values unchanged: spot, two cwt., 10s. 11d.; one cwt., 11s. 1½d.; less than one cwt., from 11s. 3½d. to 11s. 9d. per lb. This product will become liable to key industry duty on January 1, 1936.

GUAIACOL (CRYSTALS).—Prices unchanged for Continental material: 28-lb. jars, 10s. 0½d.; 14-lb. jars, 10s. 2½d.; 1-lb. bottles, 10s. 8½d. per lb., ex store. Liquid: 28-lb. demijohns, 9s. 6½d.; 14-lb. demijohns, 9s. 9½d.; 1-lb. bottles, 10s. 0½d. per lb., ex warehouse.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100-oz., 10½d., in 100-oz. tins; 10½d., in 25-oz. tins; 11d., in 16-oz. bottles; 11½d., in 4-oz. and 8-oz. bottles; 1s. 0½d., in 1-oz. bottles; less than 100-oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

MERCURIALS.—Market continues firm, with good business being done: Chloride, B.P., not less than one cwt., 4s. 11d.; smaller quantities, from 5s. per lb. upwards.

METHYL SALICYLATE.—Inquiry moderate, makers' prices steady: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Quieter market, dealers' prices fairly steady: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARALDEHYDE.—Market is steady but rather quiet: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7½d.; 12 w-quarts, 1s. 5½d.; 36 w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts; one demijohn, 1s. 2d. per lb., carriage paid.

PHENACETIN.—Continues competitive at cheap prices: crystals or powder, bulk quantities, 2s. 7d. to 2s. 8d.; smaller parcels, 2s. 8½d. to 3s. per lb.

PHENAZONE.—Cheap spot offers continue, business slow: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d.; and less, 9s. 3d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Very little inquiry on spot: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC ACID.—Market is dull and keen: spot quoted from about 25s. 6d. to 27s. 6d. per lb., as to quantity, in 2-lb. bottles.

POTASSIUM PERMANGANATE (B.P.).—Dealers doing average business: quantities, in one-cwt. drums, 9½d. to 10d.; druggists' parcels, from 10½d. to 1s. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Dealers are quoting spot at about 6s. 3d. to 6s. 4½d. per lb., as to quantity.

QUININE SALTS.—Convention scales of prices continue steady; business about normal; sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8½d.; salicylate, 2s. 9½d.; hydrochlor., 2s. 7½d.; bihydrochloride, 2s. 10½d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10½d.; valerianate, 3s. 7d.; hydrophosphite, 3s. 10½d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins free; smaller packing extra.

RESORCIN.—British material is quoted unchanged: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb.

ROCHELLE SALTS.—Makers prices are as follows:—

	Pulv. Sod. Pot. Tart. B.P.	Pulv. Seidlitz	Double Seidlitz
	Per cwt. s. d.	Per cwt. s. d.	Per cwt. s. d.
Under 1 cwt. ...	82 6	66 3	73 3
Under 5 cwt. ...	80 0	64 3	71 3
Not less than 5 cwt. in one delivery	77 6	62 6	69 0

Soda Pot. Tart. cryst. at 2s. 6d. per cwt. extra to powder. Special prices for quantities. Contracts are accepted subject to a rise and fall clause. The previous market alteration was on August 30, 1934.

SODIUM SALICYLATE (B.P.).—Average business, with makers' prices steady: home trade, crystals or powder, five cwt., 1s. 8½d.; one

cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2½d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—Business is slow, but dealers' spot quotations are about steady: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues steady: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Prices continue at the recent advance; market quiet: synthetic, fine white, two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. 4d. per lb.

VANILLIN.—Market quite steady, average business: ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

Prices in brackets denote the quoted values in January, 1935.

ACONITE ROOT.—Spot supplies of Napellus are quoted at 65s. (65s.) and Japanese at 45s. (47s. 6d.) per cwt.

AGAR.—Steady but quiet on spot; shipment offers of new crop tend rather easier: spot, Kobe No. 1, 3s. 6d. (1s. 11½d.); No. 2, 3s. 2d. (1s. 10½d.); Yokohama No. 1, 3s. 2d. (1s. 10½d.) per lb.; shipment, Kobe No. 1, new crop, January-February, 2s. 1½d.; March-April, 2s. 0½d. (1s. 7½d.); No. 2, 1s. 11½d. (1s. 6½d.); Yokohama, No. 1, 1s. 11d. (1s. 5½d.) per lb., c.i.f.

ALOE.—High prices are maintained with spot supplies limited and shipment offers very restricted: Cape, spot, 52s. 6d. for prime in boxes; shipment, boxes, 48s. 6d.; large cases, 50s. 6d. per cwt., c.i.f. Curaçao, spot, 105s. to 107s. 6d. (77s. 6d. in bond); shipment, January, 102s. 6d. per cwt., c.i.f. (76s.).

ANTIMONY.—Chinese crude is quoted at £33 10s., c.i.f. (£32 10s.). English regulus on spot, £76 to £77 (£74 to £75).

ARNICA FLOWERS.—Dealers are quoting small spot parcels at 11d. to 1s. per lb. (9d.).

BALSAMS.—Market has remained dull: Tolu, 1s. 5d. to 1s. 6d. (1s. 8d.); Canada, 2s. 9d. (3s. 9d.); Peru, 5s. 4d. (5s. 4½d.) per lb., spot.

BARBASCO ROOT.—Steady inquiry with some of the cheaper parcels cleared: root testing about 5 per cent. rotenone, 1s. per lb., spot.

BELLADONNA.—Steady demand on spot for small quantities: leaves, 65s. (75s.); root, 57s. 6d. (60s.) per cwt., spot.

BUCHU.—There are only a limited number of bales available here, and the limits for rounds are in the region of 1s. 7d. to 1s. 8d., and one seller asks up to 1s. 9d. (1s. 3d.). Ovals, if available, 1s. 3d. to 1s. 4d. (1s.) per lb.

BURDOCK ROOT.—Dealers continue to quote small spot parcels at about 80s. (50s.) per cwt.

CAMPHOR.—Market is dull and quoted unchanged: Japanese, spot, tablets, 2s. 6½d. (2s. 5d.); powder, 2s. 4½d. (2s. 1½d.); slabs, 2s. 4d. (2s. 1d.) per lb., ex store. Shipment, tablets, 2s. 2d. (2s.); powder, 2s. 1d. (1s. 10d.); slabs, 2s. 0½d. (1s. 9½d.) per lb., c.i.f. English refined is still unchanged; flowers, 1 cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; $\frac{1}{2}$ oz., $\frac{1}{4}$ oz. and $\frac{1}{8}$ oz., 3s. 6d. per lb.; special prices for contracts and quantities.

CANTHARIDES.—Occasional small inquiry on spot: Russian, 6s. 7½d. to 6s. 9d. (6s. 9d.); Chinese, 2s. 3d. to 2s. 4d. (3s. 4½d.) per lb., as to quantity, spot.

CASCARA SAGRADA.—This market is firm and supplies on spot and offers for shipment are restricted: on spot, 1932 peel, 55s. (48s.); 1933 peel, 52s. (42s. 6d.); 1934 peel, 50s. (35s. 6d.) per cwt.; shipment, odd lots of limited quantities only, 1935 peel, 42s. 6d.; 1933 and 1934 peel, 45s. to 46s. per cwt., c.i.f.

CHAMOMILES.—Market is steady, business slow: spot quoted from 110s. to 130s. (192s. 6d. to 240s.) per cwt.

CLOVES.—As quoted the market is quite steady, business moderate; Zanzibar, spot, 7½d. (5½d.); shipment, December-January, 6½d. (5½d.) per lb., c.i.f. Madagascar, in bond, 6½d. (5½d.); shipment, December-January, 6½d. (4½d.) per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 14 were nil and the deliveries 13, leaving a stock of 2,559. From January 1 to date the landings of Zanzibar have been 2,960 and the deliveries 3,425. Landings of Madagascar for the week ended December 14 were nil and the deliveries 48, leaving a stock of 14. From January 1 to date landings of Madagascar have been 4,031 and the deliveries 4,342 packages.

COCOA BUTTER.—Quoted unchanged, business quiet: prime English, 8½d. to 9½d. (8½d. to 9d.) per lb.; foreign, 8½d. to 9½d. (8d. to 8½d.) per lb., as to quantity.

COCONUT (DESICCATED).—Values have recovered and the market closes firm, business very fair: spot, fine, 24s. 6d. (20s.); medium,

24s. 6d. (19s. 9d.) per cwt.; shipment, halves, January, 24s. (19s. 6d.) per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market remains quiet, with quotations generally unchanged: finest Lofoten, steam refined non-freezing medicinal oil, 87s. 6d. to 88s. (91s.) per barrel, c.i.f. London; spot, in small lots, 130s. (130s.) per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. (130s.) per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6s. (115s.) per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Small parcels of root on spot are being quoted in the region of 42s. 6d. (45s.) per cwt. and seeds at 1s. (2d.) per lb.

DAMIANA LEAVES.—A slow market with supplies freely offered in the region of 9d. (2s. 2d. scarce and firm) per lb., spot.

DANDELION ROOT.—Supplies of foreign root are very limited and firm at 80s. to 85s. (75s.) per cwt.

DEERIS ROOT.—Fair inquiry continues, quotations vary as to sellers from 11d. to 1s. 2d. (11d. to 1s. 1d.) per lb., as to test.

DIGITALIS LEAVES.—Not much demand; quoted on spot from 86s. to 90s. (110s. in bond) per cwt., as to quantity.

ERGOT.—Quoted prices tend to ease a little, but they are still at comparatively high figures. No interest in the market at the moment: Russian, spot, 5s. 7½d. to 5s. 9d. (1s. 2d.); Spanish or Portuguese, 7s. 6d. to 7s. 7½d. (1s. 5d.); shipment, Spanish or Portuguese, 6s. 6d. to 6s. 7½d. (1s. 4d.) per lb., c.i.f.

GENTIAN.—There has been a moderate spot demand, with small spot parcels about 37s. 6d. (40s.) per cwt.

GINGER.—Market has been rather quiet, but recent high values for West African are maintained: West African, spot, 50s. (37s. 6d.); for arrival, January-March, 41s. (34s.) per cwt., c.i.f.; Jamaican, spot, bold in barrels, 97s. 6d. to 100s. (105s.); small grinding, 72s. 6d. (77s. 6d.) per cwt., in bags, ex store.

GUM ACACIA.—Market remains slack and the tone is unsteady: spot, Kordofan cleaned sorts, about 45s. (36s. 3d.); bleached, No. 1, 110s. (67s. 6d.); extra, 120s. (72s. 6d.) per cwt.; shipment, Kordofan cleaned sorts, about 42s. (34s.) per cwt., c.i.f.

HENBANE.—Dealers are quoting spot supplies at about 80s. to 82s. 6d. (80s.) per cwt., as to quantity. Market dull.

HENNA.—Business of no consequence: Indian, 30s. to 32s. 6d. (36s. to 37s. 6d.); Egyptian, 30s. (35s. to 36s.) per cwt., spot.

HYDRASTIS.—Market has been slow, quoted steadily at 9s. 3d. (5s. 4½d.), spot, and for shipment at 9s. (4s. 9d.) per lb., c.i.f.

IPECACUANHA.—Market is very firm, and it is now difficult to locate B.P. root on spot: Matto Grosso, 5s. 6d. to 5s. 9d., if available (4s. 10½d. to 5s.) per cwt.; afloat, 5s. 6d. per lb., landed terms, asked.

LIQUORICE ROOT.—Dealers are offering spot supplies of natural root at £12 10s. to £13 (£13) per ton.

MANNA.—Some selected flake in 1-lb. tins is quoted at 4s. 6d. (5s.), on spot. Market remains dull.

MENTHOL.—Business has been quiet, values steadily maintained: K/S brands, spot, 13s. 6d. (12s. 1½d.); in bond, 12s. 3d. (11s. 3d.); afloat, 11s. 9d. (11s. 1d.); shipment, December, 11s. 9d. (11s.), c.i.f. sellers; Japanese shippers quote January-March at 11s. 9d. (11s. 3d.) per lb., c.i.f.

MERCURY.—The Spanish Italian group report their shipment price continues firm at 62 dollars 50 cents (57 dollars) per bottle, f.o.b. Continent; spot, in small lots, £12 18s. 6d. (£11 12s.) per bottle, ex store.

OPIMUM.—Quiet business on spot at former figures: spot, 1s. 5d. to 1s. 5½d. (1s. 4d. to 1s. 4½d.) per unit, landed and duty paid.

ORRIS ROOT.—A small spot business in Florentine root in the region of 57s. 6d. (35s.) per cwt.

PEPPER.—Market has been dull and is fractionally easier: Lampong, in bond, 3½d. (7½d. spot); shipment, January-March, 2½d. (6½d.); March-May, 2½d. (6½d.), c.i.f. Tellicherry, spot, 5½d. (7½d.); shipment, January-March, 36s. (61s.), c.i.f. Aleppo, spot, 4½d. (7d.); shipment, January-March, 33s. (61s.), c.i.f. White Muntok, in bond, 5½d. (1s. 4½d., spot); shipment, January-March, nominal (1s. 3½d.); March-May, nominal (1s. 3½d.) per lb., c.i.f.

PIMENTO.—Market continues firm and is dearer forward: spot, 6½d. (2½d.) per lb.; shipment, January-February, 58s. 6d. (21s.) per cwt., c.i.f.

QUILLIA BARK.—Spot parcels of crushed bark are quoted at 35s. (32s. 6d.) per cwt. Business remains slow.

RHUBARB.—Shortage of supplies is the strong feature on spot, and there are still no offers for shipment: Shensi firm and only a few odd lots at 4s. 3d. to 4s. 6d. (3s. 4d. to 3s. 8d.). Rough round, all pinky, firm at 1s. 6d. to 1s. 7d. (1s. 4d.); ordinary quality, 1s. 5d. (1s. 2½d.). No Canton available.

RUBBER.—Values about level on the week, closing dull after some days of quiet business. Standard ribbed smoked sheet, spot, 6½d. (6½d.); January, 6½d. (6½d.); February, 6½d. (6½d.); March, 6½d. (6½d.); April-June, 6½d. (6½d.); July-September, 6½d. (7d.); October-December, 6½d. (7½d.) per lb.

SAFFRON.—Market is very firm with a definite crop shortage reported: spot, B.P., 1898, prime, 47s. 6d. (50s. 6d.); extra, 45s. 6d. (49s. 6d.); super, 44s. 6d. (47s. 6d.) per lb., and less for bulk quantities. Import duty has been removed during the year.

SARSAPARILLA.—Market is steady but rather slow: spot, Jamaican grey, 1s. 4½d. to 1s. 5d. (1s. 5d. to 1s. 6d.); native, mixed colours, 10½d. to 11d. (1s. 1d. to 1s. 2d.) per lb., as to quantity, spot.

SEEDS.—**ANISE.**—Spot, duty paid, Spanish, 60s. (65s.); Bulgarian, 31s. (40s.). **CANARY.**—Market quiet, Mazagan 35s. per cwt., duty paid; Spanish 48s. to 52s., duty paid. **CARAWAY.**—Dutch spot quoted at 39s. 6d. (34s.), spot, duty paid. **CORIANDER.**—Market dearer. Old crop, spot, 19s. 6d. (13s. 3d.), duty paid; new crop quoted 19s., duty paid; for shipment, the latest price quoted is 17s. 6d. (10s. 6d.), c.i.f. **CUMIN.**—Malta, spot, 48s. 6d. Morocco offered at 48s. (50s.), duty paid, and 44s. (52s.) in bond; no business passing. **FENUGREEK.**—Morocco, spot, 14s. 6d. (14s. 6d.), duty paid. Indian quoted at 13s. 9d. **MUSTARD.**—English, 20s. to 29s. 6d. (21s. 6d. to 32s. 6d.) per cwt., according to quality.

SENEGA.—Business has been poor: spot, 1s. 4d. (1s. 1½d. to 1s. 2d.); shipment, 1s. 4d. (1s. 1½d.), c.i.f.

SHELLAC.—Market is dull and rather easier: spot, standard TN orange, 55s. to 59s. (81s. to 86s.); fine orange, 90s. to 150s. (125s. to 157s. 6d.); pure button, 82s. 6d. to 90s. (125s.) per cwt., spot. For delivery, TN, March, 56s. 6d. (82s.). For arrival, TN, January, 59s. (81s.), c.i.f.

SQUILL.—Dealers are quoting spot supplies from 40s. to 47s. 6d. (25s. to 30s.) per cwt., as to quality.

STRAMONIUM.—Best quality green leaves in small parcels are at about 45s. (52s. 6d.), and lower grades range from 37s. 6d. upwards (48s. 6d.) per cwt.

TONKA BEANS.—Modest supplies of Para fair frosted beans offered on spot at 2s. 10½d. to 3s. (2s. 3d.) per lb.

TRAGACANTH.—There has been a steady inquiry for druggists' qualities ranging from £14 to £25 (£12 to £21) per cwt. Amber and low grades steady, but the demand is quiet.

VALERIAN ROOT.—Dealers are quoting supplies of spot root at about 50s. (80s.) per cwt. Market quiet.

WAX.—**BEES'.**—Rather more inquiry this week, values steady: Abyssinian, spot, 120s. (102s. 6d.); in bond, 108s. (94s.); shipment, 107s. (92s.), c.i.f. Benguella, spot, 120s. (105s.); shipment, 105s. (92s.), c.i.f. Conakry, spot, 120s. (102s. 6d.); shipment, 107s. 6d. (88s.), c.i.f. Dar-es-Salaam, spot, 120s. (102s. 6d.); shipment, 116s. (97s.) per cwt., c.i.f. **CARNAUBA.**—The demand has been small; values steady. Fatty grey, spot, 180s. (122s. 6d.); shipment, December, 167s. 6d. (105s.), c.i.f. Chalkey grey, spot, 180s. (122s. 6d.); shipment, December, 165s. (96s. 6d.), c.i.f. Primeira, spot, good quality is very scarce and firm at 220s. (240s.); afloat, 210s. (220s.); shipment, December, 205s. (160s.), c.i.f. Mediana, spot, 205s. (215s.); shipment, December, 195s. (150s.) per cwt., c.i.f.

Essential Oils, etc.

SLOWER markets are recorded this week, but the general level of values is well maintained; Madagascar clove tends to be a firm market. Singapore patchouli is scarce and again dearer on spot. Japanese peppermint has had a quiet week. French lavender and spike are unsteady. *January, 1935, prices are given in brackets.*

ALMOND.—Very small demand, closing steady: English made, cwt. lots, 2s. 3d. (2s. 6d.); smaller parcels, 2s. 7d. (2s. 9d.) per lb.; foreign, cwt. lots, 2s. 2d. (2s. 4d.); smaller parcels, 2s. 6d. (2s. 7½d.) per lb. French, bitter, 6s. 3d. (8s. 6d.) per lb.

ANISE (STAR).—Spot market steady but quiet. Fair business in re-sale afloat. No offers for shipment from the sources: spot, leads, 2s. (1s. 11d.); tins, 1s. 10½d. (1s. 9½d.); drums, 1s. 10d. (1s. 7½d.) per lb., ex store; shipment, leads, nominal, no offers (1s. 9½d.); tins, 1s. 8½d., re-sellers (1s. 7½d.); drums, 1s. 7½d., re-sellers (1s. 7d.) per lb., c.i.f.

BAY.—Market is quoted slightly cheaper, business dull: 49 to 50 per cent., about 5s. 1d. (5s. 3d.) per lb., as to quantity.

BERGAMOT.—Business on spot has again been of small account, with the average prices asked by holders about 8s. 1½d. to 8s. 4½d. (about 5s. unsteady) per lb., as to brand and quantity.

BOIS DE ROSE.—Values quoted are unchanged, business quiet. Brazilian, spot, 5s. 3d. to 5s. 4d. (5s. 7½d. to 5s. 9d. firm); shipment, about 5s., c.i.f. (5s. 6d., c.i.f., firm).

CAJUPUT.—Market remains dull: B.P., 1s. 10d. to 2s. 1d. (2s. 1d. to 2s. 3d.) per lb., as to quantity.

CANANGA.—This market is receiving very little inquiry, tone irregular: spot, 10s. to 10s. 6d. (10s. 3d. to 10s. 6d.); shipment, about 9s., c.i.f. (8s. 6d.).

CARAWAY.—Quoted values for Dutch are unchanged. Russian oil at cheap figures: Dutch rectified, 10s. 6d. to 10s. 9d. (8s. 9d. to 9s. 4½d.); crude, 10s. 1d. (8s. 6d.) per lb., landed and duty paid.

CASSIA.—Market remains dull and rather easy: spot, about 4s. 3d. (4s. 4½d. to 4s. 6d.); shipment, about 3s. 1d. (3s. 8d. firm), c.i.f. Import duty was removed during the year.

CEDARWOOD.—Occasional limited sized business, market steady: American and African oils, spot, 1s. 1½d. to 1s. 2d. (1s. 2½d. to 1s. 3d.) per lb., as to quantity.

CINNAMON LEAF.—Values are quite steady, business slow: Ceylon oil, spot, drums, 2s. 5d. (2s. 10d.); smaller packings, up to 2s. 10d. (3s.); shipment, 2s. 3d. (2s. 6½d.) per lb., c.i.f.

CITRONELLA.—Inquiry for these products on this market remains poor, quotations remain at low figures: Ceylon, spot, drums, about 1s. (1s. 4d.); smaller parcels, 1s. 1d. to 1s. 4d. (1s. 4½d. to 1s. 7d.); shipment, drums, 9½d. (1s. 1d.) per lb., c.i.f. Java, spot, drums, 1s. 2½d. (1s. 6½d.); smaller parcels, 1s. 3d. to 1s. 7d. (1s. 7d. to 1s. 8d.); shipment, drums, 1s. 0½d. (1s. 3d.) per lb., c.i.f.

CLOVE.—Supplies of Madagascar oil seem to be limited and in firm hands: Madagascar, spot, drums, 3s. 1½d. (3s. 3d.); smaller packings, up to 3s. 6d. (3s. 6d. to 3s. 7d.) per lb.; shipment, 2s. 7½d. (2s. 8d.) per lb., c.i.f.

EUCALYPTUS.—Latest reports from the source indicate rather firmer tone and tendency to higher values: Australian, 70 to 75 per cent., 1s. to 1s. 0½d. (1s. to 1s. 0½d.); 80 to 85 per cent., 1s. 1d. to 1s. 1½d. (1s. 1d. to 1s. 1½d.) per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 2d. (1s. 2d.) per lb., ex store.

GERANIUM.—The shipment markets are steady on quotation, spot market dull: Bourbon, spot, 20s. to 22s. 6d. (20s. to 21s. 6d.); shipment, 21s. (19s. 3d.), c.i.f. Algerian, spot, 21s. 6d. to 22s. 6d. (22s. to 23s.); shipment, 21s. (21s. 3d.) per lb., c.i.f.

GINGERGRASS.—Business has been negligible, values steady: spot, 5s. (4s. 7½d.); shipment, 4s. 3d. (4s. 3d.), c.i.f.

HO (SHIT).—Business has been quieter: spot, 1s. 8d. to 2s. 1d. (1s. 8d. to 2s.) per lb., as to quantity and quality.

JUNIPER BERRY.—Business has been quieter. Standard quality oil is offering at about 3s. (3s. 3d. to 3s. 4½d.) per lb., in small parcels.

LAVENDER.—Market remains dull and is irregular, closing weak. The following figures are about the average of quotations: 50 to 52 per cent., 31s.; 48 to 50 per cent., 28s.; 40 to 42 per cent., 22s.; 38 to 40 per cent., 21s. (19s. to 20s.); 36 to 38 per cent., 19s. per lb., landed. Lavandin is quoted from 12s. 6d. to 13s. 6d. (14s.) per lb.

LEMON.—A moderate business is reported on spot in Sicilian hand-pressed oil, with holders' quoted prices about steady in the region of 7s. 6d. (3s. 1½d. to 3s. 4½d.) per lb. Shipment quotations in January last were about 2s. 11d. to 3s. 1d., c.i.f.

LEMONGRASS.—Market remains dull with spot about 2s. 3½d. to 2s. 4d. (3s. 9d. to 3s. 10d.); shipment, 1s. 11½d. (3s. 7½d.) per lb., c.i.f.

LIME.—West Indian distilled continues steady on spot from 24s. to 25s. 6d. (20s. 3d. to 21s.) per lb., as to quantity.

MANDARIN.—With supplies of good-class oil scarce, the spot value for small parcels is firm at 22s. 6d. (12s. 6d. to 13s.) per lb.

NEROLI.—Average prices, as to quality, range from 14s. 6d. to 18s. 6d. (14s. 6d. to 21s. 6d.) per oz. The source indicates steadier conditions due to the inclement weather recently experienced, which may have damaged trees and may affect next season's flowers.

NUTMEG.—Market is steady but quiet: English and American oils, 5s. 1d. to 5s. 3d. (5s. 4d. to 5s. 6d.) per lb.

ORANGE.—Sicilian sweet continues nominal on spot (7s. 4½d.); shipment, nominal (6s. 9d., c.i.f.). French Guinea oil is scarce on spot, with re-packed oil, in tins in cases, 3s. 4½d. to 3s. 6d. (3s. to 3s. 1½d.); shipment, about 2s. to 2s. 1d. (2s. 2d.), c.i.f. Californian, steady, spot, one case, 3s. 4½d. (2s. 4½d.); two or more cases, 3s. 2d. (2s. 4½d.); small drums, 3s. 1d. (2s. 3½d.) per lb.

PALMAROSA.—Market remains dull and is rather unsteady: spot, about 6s. (5s. 9d.); shipment, 5s. 6d. (5s. 8d.) per lb., c.i.f.

PATCHOULI.—The Singapore oil on spot is being very firmly held and supplies seem to be extremely limited. Most holders are not willing to sell at less than 14s. to 15s. per lb. (9s. firm and advancing); there are no shipment offers to-day; in January last the market was advancing from 11s per lb., c.i.f. In the previous year spot values had been down to 6s. 6d., and it will be noted that, in January this year, there were spot offers well below the shipment figure.

PEPPERMINT.—The market has been quiet, with values about unchanged on the week. A number of imports are still awaiting declarations for October-December shipments: on spot, 5s. to 5s. 1d. (4s. 4d.); afloat, 4s. 11d., landed terms (4s. 3d.); shipment, October-December, 4s. 7½d. (4s. 2d.); January-March, 4s. 6d. (4s. 1½d.) per lb., c.i.f., re-sellers. Japanese shippers quote January-February at 4s. 8d., c.i.f. (4s. 3d.). The American natural oil is reported much steadier at the source, with advances in values anticipated. Shipment offers for 50 per cent. menthol content firm at 2 dollars 10 cents (3 dollars 5 cents) and 46 per cent. menthol, 1 dollar 95 cents per lb., c.i.f., in drums.

PETITGRAIN.—The spot values are about 3s. 11d. (4s. 4d.), with shipment quoted at about 3s. 6d. (3s. 10d.), c.i.f.

ROSEMARY.—Market has remained quiet: Spanish oil, 1s. 9d. to 2s. 1½d. (1s. 8d. to 2s. 1d.) per lb., as to quality and quantity.

SANDALWOOD.—Genuine East Indian Mysore, 19s. (19s.) per lb., in one-case lots, on spot; market is rather unsteady, with cheaper offers

in some quarters, particularly for good quantities. English-made East Indian, 22s. 6d. to 25s. (22s. 6d. to 25s.) per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d. (6s. 9d.); 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. (15s. 6d.) per lb.

SASSAFRAS.—Business on a small scale, with standard quality oil about 3s. 7½d. to 3s. 10½d. (4s.) per lb. Artificial oil at cheaper prices.

SPEARMINT.—Business has been slow: spot, 8s. to 8s. 3d. (8s. 6d. to 8s. 9d.); shipment, 7s. 6d., c.i.f. (7s. 9d.).

SPIKE.—Market dealing in the Spanish oil is dull and unsteady: spot quoted from about 4s. 4d. to 4s. 8d. (5s. 6d. to 5s. 8d.) per lb., as to quality and quantity.

VETIVER.—Bourbon is quoted on spot at about 39s. (32s.); shipment, 34s. 6d. (28s. 3d.), c.i.f.

WINTERGREEN.—Dealers' prices for the natural oil range from 6s. to 6s. 6d. (6s. to 6s. 6d.) per lb., spot.

WORMSEED.—Market has been quiet but is fairly steady: spot, about 8s. 4½d. (9s. 1½d.); shipment, 7s. 9d. (8s. 3d.), c.i.f.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," December 4, 1935.)

- "RHUMUV"; for medicated herbal tablets (3). By J. A. Knowles, Hallam Grange, Sheffield, 10. B561,210.
- "FILTROGEN"; for a bacteriological preparation for hypodermic injection in gonococcal infections (3). By Parke, Davis & Co., 50 Beak Street, London, W.1. 561,656.
- "A R P"; for medicated tablets for internal use (3). By Institute of Autonomic Therapy, Ltd., 3 St. James's Square, London, S.W.1. 561,508.
- "COLLYSEETOL"; for medicinal chemicals (3). By Bengue & Co., Ltd., 24 Fitzroy Street, London, W.1. 561,868.
- "EFFICIA" supported on silhouette design representing head and upheld arms; for medicated preparations for internal use (3). By Laboratoires Pharmaceutiques Efficia, 36 Rue Guersant, Paris. 562,171.
- "LIFO"; for a saline preparation for liver ailments (3). By H. M. Lingford, 5 Durham Street, Bishop Auckland, Durham. B562,258.
- "SEDAMYN"; for medicated cough syrup (3). By Sharp & Dohme, Ltd., 76-78 City Road, London, E.C.1. 562,666.
- "FAIRFOST"; for medicinal chemicals (3). By T. W. Forster, 11 Faircross Parade, New Barking, Essex. 562,894.
- "DELLEXENE"; for all goods (3). By Dellex, Ltd., 106 Baker Street, London, W.1. 562,980.
- "CHOCATES"; for laxative medicines containing chocolate (3). By United Chemists' Association, Ltd., Priory Court, London Road, Cheltenham. 563,572.
- "RIU-CLEAR"; for medicinal chemicals (3). By Rhu-Clear Laboratories, Ltd., 93-97 Regent Street, London, W.1. 563,949.
- "CERTZEN"; for surgical instruments, etc. (11). By S. G. Catt, 19 Wood Lane, Highgate, N.6. 563,366. (Associated.)
- "ROBOLEINE"; for food substances (42). By Oppenheimer, Son & Co., Ltd., Handforth Laboratories, Clapham Road, London, S.W.9. 564,182. (Associated.)
- "X-VAZIN" ("X" disclaimed); for all goods (48). By the Simmonds-Febraro Mfg. Co., 107 Stonehouse Street, Clapham, S.W.4. 562,375.
- "BRYTLEX"; for perfumery, etc. (48). By Park Royal Perfumeries, Ltd., Park Royal Road, London, N.W.10. 562,768.
- "NOVOGLANDIN" and "NEOGLANDIN"; for perfumery, etc. (48). By The Dubarry Perfumery Co., Ltd., Hove Park Villas, Hove, Sussex. 563,480/617. (Associated.)
- "BARBIVORE"; for perfumery, etc. (48). By A. & H. Bassat (London), Ltd., 28-37 Easton Street, Rosebery Avenue, London, W.C.1. 563,677.
- Design of chopper and block on circle; for all goods (48). By J. Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E.1. 563,924. (Associated.)

APPLICATION AMENDMENT.

The specification for "ZEPHIRAN" in Class 3, No. 559,978, by Bayer Products, Ltd., has been amended to "a medicated antiseptic for external human use."

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Hamamelin, B.P.C.

SIR,—The 1934 edition of the B.P.C. includes *Extractum Hamamelidis*, with the synonyms *Hamamelin* and *Hamamelidin*, made by extracting hamamelis leaves with alcohol (90 per cent.) and drying and powdering the extract. We find this product is brown and very hygroscopic, and this agrees with the statement about it in the 1923 edition of the B.P.C. We have found, however, that many customers expect a green product, and several firms are supplying a green powder labelled "Hamamelin B.P.C., 1934." One of these we examined contained about 20 per cent. of mineral matter, and on sprinkling on to moistened filter-paper streaks of blue, yellow and other colours showed that it had been coloured with an aniline dye; another specimen had apparently been coloured with added chlorophyll. We think pharmacists' attention should be called to the fact that hamamelin, B.P.C., is brown and that all "hamamelin virid." is an artificially coloured product, the statement of the B.P.C., 1923, that it can be coloured by means of powdered hamamelis leaves not being correct, if anything more than a slight greenish tinge is meant.

Yours faithfully,

For STAFFORD ALLEN & SONS, LTD.,
K. C. ALLEN, Director.

London, E.C.2.

P.A.T.A. Council Election

SIR,—Allow me to thank the 2,553 electors who have placed me on the top of the poll at the recent P.A.T.A. election. For fifteen years I have strenuously fought for price maintenance and all P.A.T.A. matters, and will endeavour still further to justify the confidence shown in my election.

Yours faithfully,

W. N. ARMITAGE.

Leeds, 12

Collective Advertising

SIR,—“Medium Size’s” letter, however admirable otherwise, is sadly illogical (*C. & D.*, December 14, p. 719). (1) If, as he alleges, we have little or nothing to fear from the multiple stores, why should we go to the trouble and expense of imitating their extensive advertising campaigns? (2) Is he really serious when he contends that though we have little to fear from chain stores, we may well be apprehensive of the competition of “all kinds of small shops, market traders and travelling vans”? Perhaps, simple fellow as I am, I am taking a bit of leg-pulling all too seriously.—Yours truly,

SMALL RETAIL PHARMACIST (17/12).

Chemists' Friends Scheme

SIR,—The spirited letter of “Nobby Brother” has drawn a reply from “Not Related,” and I venture to answer some of his queries which are not hypothetical. A drug store account can run into four figures without scheduled poisons quite easily, and the friendly eye of the doctor is not a *sine qua non* if the business is carried on in a perfectly open and honest way. Far too much use is made of the term “poisons” considering the infinitesimal use of them in the everyday treatment of minor ailments. If I am asked for an article containing poison, or to dispense a medicine containing such, the customer is referred to the nearest chemist with the remark that I regret that I do not stock poisons, or that the script orders an ingredient I do not stock. The Chemists' Friend Scheme cannot become a success, because it is unworkable. The unqualified man can and does make a success of his job when he reverts to the type of chemist of thirty or forty years ago, having a thorough working (as against a theoretical) knowledge of medicaments, combined with sympathy, unfailing courtesy and application to the work—and there are more men of this type in business than the chemist cares to admit. It is largely because of the absence of these qualities that the young chemist of to-day so often fails. There will, of course, always be a living for the learned and highly certificated man in the higher air of pharmacy, where doctors prescribe and chemists dispense the latest nostrums in serums and hypnotics for the hypochondriac and

new rich. The humbler folk who have neither the inclination nor the means to indulge in the latest discovery or whim of science will still go to the man who can give them what they want at a reasonable price, whatever alphabetical combination may be lacking behind his name. To bolster up a failing business with goods from the fancy bazaar was the beginning of the chemists' troubles—and the end is not yet. One thing is certain; if he reverts to “pharmacy only” there will not be sufficient bread and butter for 25 per cent. of the existing members.—Yours faithfully,

“CLEFT-STICK” (17/12).

Hormones and Character

SIR,—Reading the abstract of Professor Daly's lecture “A Study in Physiology” in the *C. & D.* of December 7, made me forget for a while the Chemists' Friends Scheme and Christmas window dressing. It is good sometimes to be raised above the “bread and butter line,” and one statement of Professor Daly gave me food for serious thought. It was to the effect that endocrine balance has a great effect on character. He did not enter into details, as probably time did not allow, when this is coupled with another statement of his “that current thought inclines towards the belief that all functions are regulated by chemical processes,” one begins to wonder what is the verdict of science on human personality. Many years ago I heard a friend lecture on “Who are you?” and he described Mr. Confident, Mr. Anxious, etc., after the style of “The Pilgrim's Progress.” But the question raised by Professor Daly's lecture is “Who am I?” or rather “What am I?” Is our mental life, character and conduct ruled by our hormones? Are all our feelings, sensations, even aspirations, caused by or the results of chemical changes? If so our personality is bound by chemical chains and we are just obedient servants of our “hormones,” “genes” and (not to forget our old friend Freud) our “unconscious mind.” Mr. Julian Huxley says somewhere that we are given at birth a hand of cards. With these cards we must play the game of life. Change them we cannot. . . .—I am, etc.,

J. M. EDWARDS.

London, S.E.16.

This Business of Pharmacy

SIR,—As the writer of the letter referred to by your correspondent “Ethicus” (*C. & D.*, November 16, p. 606), I may state that the points he raises are not conclusive, but it would appear that in some parts of the country there is need for improved ethics as between (a) doctors and chemists and (b) chemists and patients. I suppose I should consider myself and brother chemists in this part of the country as very fortunate, when I mention that the relationships in these respects are most cordial. Mine is an ordinary chemist's business in an industrial area, yet I am from time to time consulted by doctors as to the best means of dispensing some particular drug which they wish to prescribe. Occasionally, too, I have been told by doctors that they look upon the chemist as a professional man (we will for the moment exclude his remuneration) who can advise them on matters affecting the suitable presentation of medicines. The doctors in my area number about a dozen, and I am on friendly terms with all. I know of a chemist who recently opened new premises and within a week or two had friendly visits from several doctors who were interested to see through his establishment. We are not immune from the doctor who supplies certain articles, but we also prescribe in simple cases. As to patients, we have them coming in when convalescent. Such people, in my experience, have a weakness for giving the chemist a history of their illness, and not infrequently he can bring off a sale of some restorative. I heartily agree with “Ethicus” that there is also need for loyalty to brother chemists. So far as the business side of pharmacy is concerned (and in this I include pharmaceutical ethics), Youth should be instructed in this subject at the earliest opportunity.—Yours, etc.,

COMMENTATOR (19/11).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

F. W. (10/12).—INDIAN SAUCE.—The following is a typical formula for Indian sauce:—

Butter	..	..	..	..	1½ oz.
Curry powder	..	..	..	..	1 oz.
Flour	..	..	..	..	1 oz.
Sour apple sliced	..	..	..	..	1
Onion sliced	..	..	..	..	1
Lemon juice	..	..	..	..	1 dr.
Salt	..	..	..	..	1 dr.
Meat stock	..	..	..	..	¾ pint

Fry the onion in the butter, sprinkle in the flour and curry and cook for 10 to 15 minutes. Add the stock, bring to boil, put in the apple and salt and simmer for 20 minutes. Strain, reheat and add the lemon juice.

J. E. S. (29/11).—CITRIC ACID.—The following is a translation of the monograph on citric acid, Swedish Pharmacopœia X: Citric Acid. $\text{HO}_2\text{C} \cdot \text{CH}_2 \cdot \text{COH}(\text{CO}_2\text{H}) \cdot \text{CH}_2 \cdot \text{CO}_2\text{H} \cdot \text{H}_2\text{O}$. Molecular weight 210.08. Colourless, translucent, sometimes slightly efflorescent prisms with acid taste, soluble in 0.75 part water at 15° C. and in 0.5 part water at 100° C., in 1 part alcohol and in about 45 parts ether. On rapid heating citric acid melts at about 100° C. An aqueous solution of citric acid when heated carefully with a few drops of 1/10 normal potassium permanganate gives a colourless liquid which, on the addition of bromine solution, shows a white cloudiness. One c.c. of an aqueous solution (1 in 10) on the addition of excess of lime water produces a clear solution, which becomes cloudy on boiling and clears again on cooling. An aqueous solution (1 in 10) undergoes, when almost neutralised with ammonia 5N, no noticeable change on addition of H_2S (lead). An aqueous solution (1 in 10) does not become cloudy on addition of ammonium oxalate N/2 or of barium nitrate N/2 nor within ten minutes on addition of calcium sulphate (oxalic acid). On heating 0.5 gm. citric acid with 10 c.c. concentrated sulphuric acid on a water bath for half an hour, the mixture should become a pure yellow, without any brown tinge (tartaric acid); 0.3 gm. citric acid on incineration should not give more than 1 mgm. residue.

J. M. (2/12).—COLOURING OF BILLIARDS BALLS.—See C. & D., November 23, p. 638. For red, place the ball in an alcoholic solution of fuchsine, 1 in 20, and allow it to remain there until it exhibits the desired colour. An alternative red can be made by means of an ammoniated solution of carmine. For other colours, an alcoholic solution of aniline dyes may be used.

H. S. F. (16/12).—FOAM BATHS SOLUTION.—The liquid answers the tests for sulphonated lorol and solution of quillaia. We suggest the following formula:—

Liquid lorol	..	..	..	3i.
Liquid extract of quillaia	..	..	..	3iiss.

According to "Pharmaceutical Formulas," Vol. II, foam baths may be made by mixing together starch powder 80 parts and coconut oil soap powder 20 parts. This powder is mixed with the water and a rapid current of air is passed through the bath. The following is also used for this purpose:—

Liquid extract of quillaia	..	..	1 oz.
Mucilage of tragacanth	..	..	2 dr.

R. & H. (26/11).—WALNUT HAIR DYE.—The chief problem in connection with hair dyeing by means of walnut extract is that of fixing the dye. One authority refers to alum, which is usually added in making the extract merely as a preservative. Another speaks of it as fixing the colour. Before applying walnut extract, the hair must be freed from grease by means of shampooing, and great care must be exercised in applying the dye to keep it from coming in contact with the scalp, which otherwise becomes stained. Hair freshly dyed with walnut extract looks rather yellowish, but the full warm brown colour develops in the course of a few days.

H. B. (6/12).—TERPINEOL.—Commercial terpineol is a mixture of isomeric terpineols. It is soluble in alcohol and fatty oils, and possesses a pleasant lilac odour. It occurs naturally in cardamom and other oils, and is made on a large scale from turpentine. It blends well with heliotropine and oils of ylang-ylang, jasmine, rose, cananga, geranium and sandal. It is used in compounding artificial lily of the valley, hyacinth, lilac and May-blossom. Largely used also in soap manufacture, its high boiling point being an advantage in that it can be added to soap while hot. It is unaffected by alkalis, acids, and prolonged boiling. Ten ounces is required for 1 cwt. of soap, in combination with heliotrope, ylang-ylang, geranium, or similar oils. In skin creams it is said to irritate the skin.

C. I. S. (4/10).—SAFFLOWER.—Safflower (*Carthamus tinctorius*) consists of the dried florets of an annual thistle-like composite which is native to Southern Asia and formerly cultivated in India, Egypt and China as a natural dye. The florets are often worked in water to remove soluble yellow colour, which may amount to 30 per cent. The dried product is packed into cakes in which the amount of red colouring matter (carthamin) is quite small (0.5 per cent.). Carthamin is insoluble in water, but readily dissolves in cold dilute solution of an alkaline carbonate.

J. F. G. (3/12).—JASMINE PERFUME.—The following formula is preferable to the one you mention:—

Benzyl acetate	..	..	..	100
Benzyl propionate	..	..	..	30
Linalol	..	..	..	5
Petitgrain terpeneless	..	..	..	5
Para cresyl methyl ether	..	..	..	2
Hydroxycitronellol	..	..	..	30
Ionone	..	..	..	100
Phenyl ethyl alcohol	..	..	..	40
Ethyl anthranilate	..	..	..	10
Musk ketone	..	..	..	10
Amyl cinnamic aldehyde	..	..	..	30
Para methyl quinolene	..	..	..	1

The above is suitable for D.M.5 in the proportion of 8 oz. to the gallon, plus the denaturant—1¾ oz. di-ethyl phthalate. Such oils as clove, verbena and santal are not compatible with a jasmine odour, particularly the first-named.

Retrospect of Fifty Years Ago

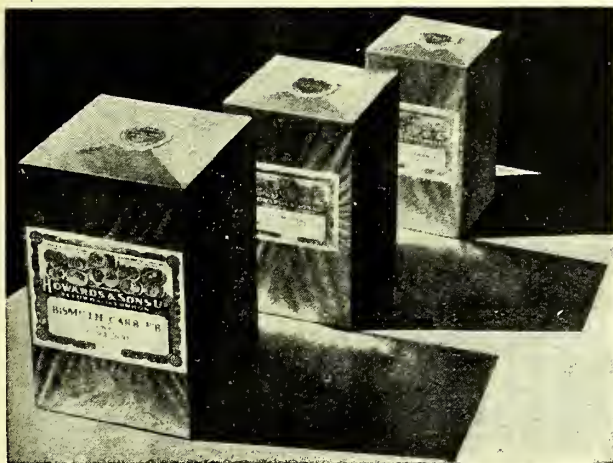
Reprinted from

"The Chemist and Druggist," December 15, 1885

Aqua Laurocerasi

As I had often supposed myself that this water was very liable to change, I made several accurate determinations of waters, prepared by myself, according to the mentioned Pharmacopœia, and found that if well prepared they contained 0.0835 per cent. of hydrocyanic acid. After this determination I filled several wine bottles with this standardised cherry laurel water, and preserved them in a horizontal position in a cellar. During more than a year I examined from time to time the contents of one of these bottles, and found that the percentage of hydrocyanic acid was not the least altered. . . . The first attempt made in Holland to standardise the cherry laurel water was by the editors of the Pharmacopœia Neerlandica in 1851, wherein they state:—"Aqua laurocerasi bonæ notæ uncia una, nitratis argenticæ solutione instillata, grana duo cyaneti præbet." This first attempt was followed by a legal prescription in the next Pharmacopœia Neerlandica, editio altera, published in 1871, which requires that the cherry laurel water must contain 0.0839 per cent. of hydrocyanic acid. [From an article by Dr. J. E. De Vrij.]

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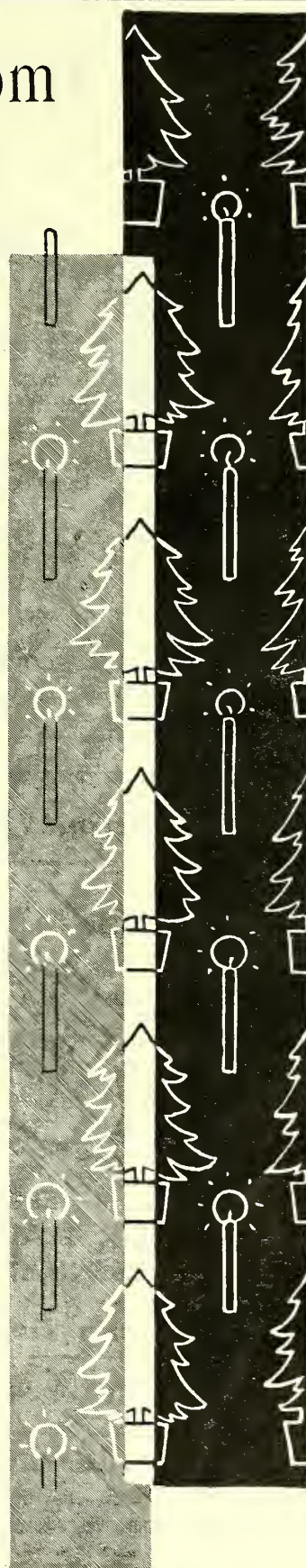
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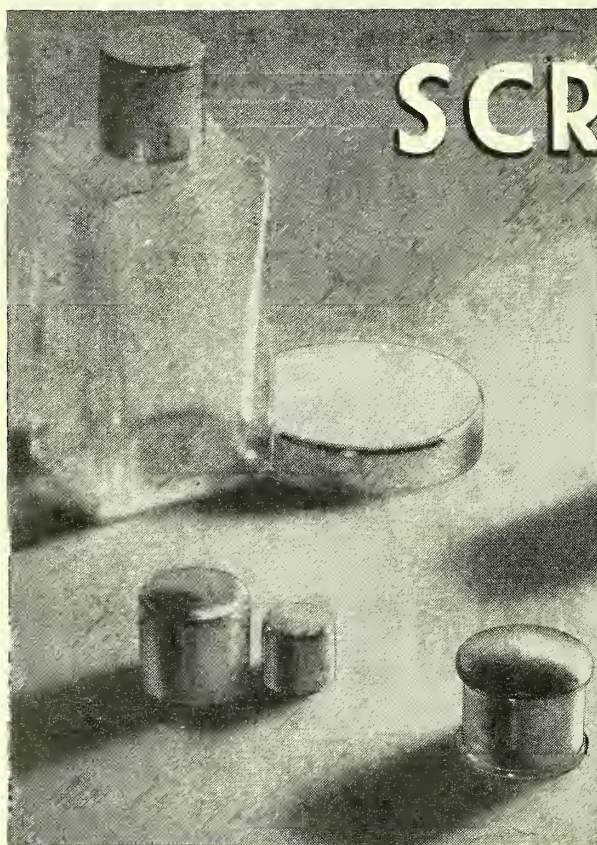
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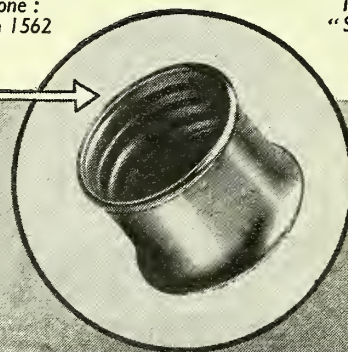
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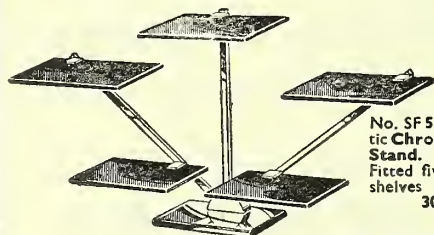
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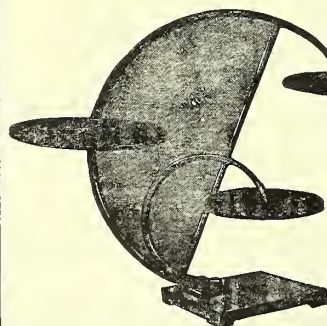
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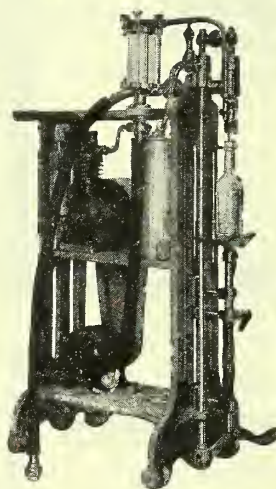
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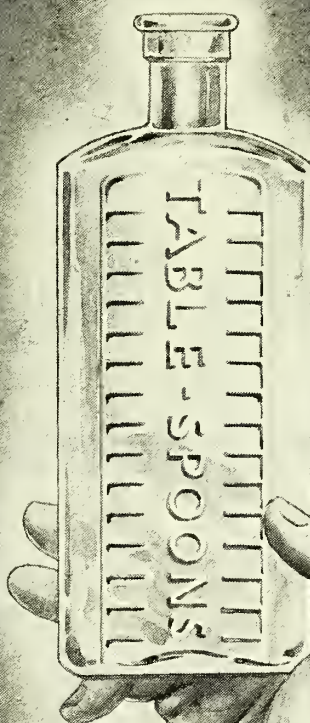
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This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C. 2

DECEMBER 21, 1935

SPECIAL NOTICE

WILL intending advertisers please note that, owing to the XMAS HOLIDAYS, all advertisements for the Supplement of December 28th must reach this Office by First Post on

TUESDAY, DECEMBER 24th

Any Advertisements received after this will be inserted in the issue of January 4, 1936

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- 3.—VICTORIA.—Middle-class Cash Retail Business with Photographic; established over 50 years; returns last year exceeded £1,500; good profits; stock worth £300; rent and rates under £100 per annum; price £900 or near offer; genuine reason for disposal.
- 4.—CHEAM (NEAR).—Middle-class Cash Retail Business; established about 6 years; returns about £1,800 per annum; modern flat over; reasonable rental; long lease with option to purchase; price all-at £1,100 or near offer.
- 5.—NORTH LONDON.—Main Road Cash Retail Business at present run under management; present returns about £32 per week; stock worth £500; living accommodation; further details to genuine applicants.
- 6.—EDMONTON (NEAR).—Middle-class Business in good position; returns about £18 per week plus Panel; stock and fixtures worth £370; advantageous sub-let; lease available; price all-at £420.
- 7.—CRICKLEWOOD (NEAR).—Good-class Business for disposal; returns £2,500, increasing; excellent profits; nicely fitted shop, well stocked; new lease will be granted; living accommodation optional; price £1,550 or near offer.
- 8.—EDGWARE (NEAR).—Middle- and Working-class Business with Panel approximately £8 per month; cash takings, £18 per week; good profits; at present run under management; good clean stock; flat over at present sub-let at £1 1s. per week; price asked, £425 all-at, or near offer.
- 9.—ROMFORD (NEAR).—Cash Retail Business with Radio, etc.; net profit last year, £408; stock worth £300; net rent, £48 per annum; long lease; price for immediate sale, £500 all-at.
- 10.—S.W. LONDON.—Good-class Dispensing Business situate in premier position; takings exceed £3,000 per annum; attractive shop very well fitted; scope for increase under the management of a proprietor; further details upon application.
- 11.—BUCKS (HIGH-CLASS TOWN).—Good-class Business; returns present rate £19 per week under management; double-fronted attractive shop, well fitted; rent £60 per annum; long lease; price asked, reasonable sum for goodwill plus valuation of stock and fixtures.
- 12.—NORTHANTS (IMPORTANT TOWN).—Branch Business for disposal; excellent photographic connection; established over 50 years; in present hands 11 years; returns £1,500 per annum; attractive shop; good, clean stock worth about £500; sub-letting produces £81 per annum; vendors own property, and will sell or grant a lease at a reasonable rental; enquiries invited.
- 13.—LANCASHIRE.—Cash Retail Business with Panel; returns, £22 per week cash, panel £8 per week approximately; good, clean, saleable stock worth about £400; rent £1 6s. per week; comfortable living accommodation; offers invited.
- 14.—CORNISH COAST.—Good Middle-class Business in key position; returns under management rapidly increasing, last year being £2,140; takings for last week £50; good profits; stock worth £650; long lease at £120 per annum; living accommodation; lowest price £2,000.
- 15.—SUSSEX COAST (IMPORTANT TOWN).—Middle-class Business with fair amount of dispensing; Kodak Agency; returns for last completed financial year, £2,609; good profits; stock worth about £600; rent £175 per annum; held on lease; new shop front recently installed; price, all-at, £2,150.
- 16.—SOUTH COAST.—High-class Dispensing Business; old-established; returns approximately £3,250 per annum; living accommodation after substantial sub-lets; excellent stock; attractive fixtures; price asked, £2,650.
- 17.—WORCESTERSHIRE.—Good-class Suburban Business in present hands 37 years; returns about £1,240 per annum; good profits; living accommodation at present sub-let; new lease at under £1 per week; stock and fixtures worth about £600; price £850-£900.
- 18.—HOME COUNTIES.—Good Middle-class Retail Business; average, weekly takings and panel for last six months, over £32; returns for last completed financial year, £1,586; flat over, at present sub-let; stock and fixtures worth about £750; further details upon application.
- 19.—ACCRINGTON (NEAR).—Middle- and Working-class Business with good Panel; returns about £14-£15 per week; stock worth £300; living accommodation with two bedrooms; rent £60 per annum; new lease obtainable; rates £28 per annum; price for immediate sale, £300 all-at.
- 20.—DERBYSHIRE.—Cash Retail Business at present run under management; premises situate in excellent position; returns average £25 per week; good stock worth over £500; lock-up shop held on long lease at £100 per annum, rising to £150 per annum; the vendors are anxious to sell this business forthwith, and will accept a very reasonable offer.

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(C3) STAFFS.—Unopposed general country business for sale owing to retirement; turnover approximately £2,000 per annum; low rental; price about £900, including stock, £400, subject to valuation.

(C4) SUTTON (SURREY).—Good middle-class business, with some optics; steadily increasing returns, which for last financial year amounted to £1,878; net profit, £400/£450; modern flat above; stock and fixtures estimated at £950; for quick transaction owner will sell at sacrifice price of £1,100 all-at; splendid opportunity, particularly for chemist-optician.

(C5) HORNSEY (NEAR).—Good family business in present hands 40 years; large panel; turnover now approximately £1,500 per annum, with plenty of scope for further increase; self-contained house; owner retiring; £300 is asked for goodwill, plus value of stock and fixtures; open to offer.

(C6) BRISTOL.—Undeveloped pharmacy with extensive scope for increase; present returns at the rate of approximately £1,100 per annum, but these figures represent no criterion of possibilities; rent £90, including small house above; owner leaving pharmacy; immediate sale essential, and sacrifice figure of £500 all-at, representing considerably less than the value of stock and fixtures, will be accepted.

(C7) CROYDON.—Established middle-class business, with good living accommodation, including garage and garden; returns for last financial year, £1,201; net profit £300; rent £80; premises situated in main shopping road of congenial residential area; price asked, £825 or near offer.

(C8) ABBEY WOOD (NEAR).—Small easily-worked business with living accommodation, at present under lady proprietorship; turnover upwards of £1,000 per annum; net profit approximately £250; rent £32; rates £12; price approximately £550; offers considered.

(C9) KINGSFON-ON-THAMES (NEAR).—Attractive modern pharmacy with living accommodation; turnover for 1934-35, £1,246; rent £70; lease 14 years; no near opposition; reasonable purchase price.

(C10) SUSSEX.—Middle-class business, with good living accommodation, situated in congenial market town; present returns approximately £1,250 per annum; quick sale desired for genuine reasons, and owner will accept £550 all-at, including stock about £350.

(C11) VICTORIA (NEAR).—Good family business showing average returns of approximately £1,650 per annum; double-fronted lock-up shop; rent £95; good scope for further development; price £900; genuine reason for selling.

(C12) EARL'S COURT.—Good-class business, prominently situated, for quick disposal at "bargain" figure; turnover for 1934 financial year, £1,753; rent £100; scope for substantial increase; first reasonable offer secures.

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(C15) LONDON, N.W. (OUTER SUBURB).—Attractive modern pharmacy, situated in rapidly-growing residential area; turnover steadily increasing, and should undoubtedly show big strides within the next two years. Returns for 1934-35 upwards of £2,500; living accommodation if required; genuine reason for selling; reasonable purchase price.

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(C17) WARWICKSHIRE.—Good family business with up-to-date living accommodation; no near opposition; average returns approximately £1,450 per annum; rent and rates £104 16s.; lease 22 years unexpired; price £200, plus value of stock and fixtures.

(C18) LONDON, W.—Drug store, old established, with particularly good scope for substantial development; turnover upwards of £1,200 per annum; rent £100, including living accommodation; price £650 all-at, of which stock is estimated at £300, and fixtures £250.

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